Planning and Scheduling Confidence Test - EOC3

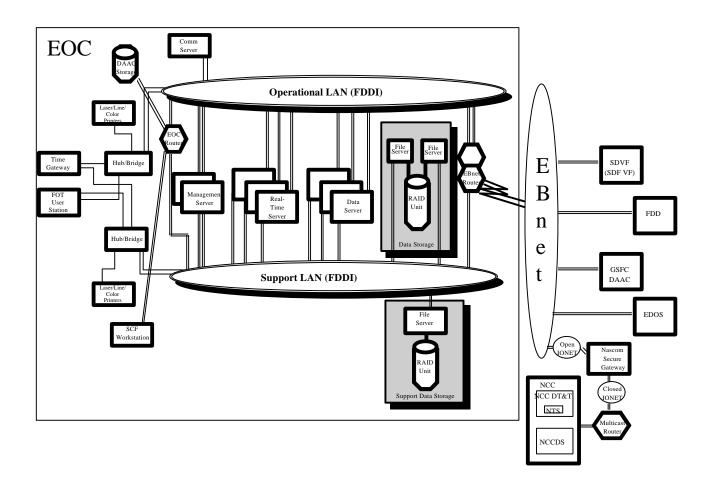
Test Objectives:

The main objective of this test is to verify that the EOC can produce an integrated schedule of activities for instruments and spacecraft subsystems, and generate the ground scripts and command loads necessary to implement the scheduled activities. The test will demonstrate that the EOC can perform the following planning and scheduling functions:

- Long Term Plan ingest and/or access
- FDD planning and scheduling product ingest
- Activity, Baseline Activity Profile (BAP), and constraint definition
- General scheduling
- ASTER scheduling
- What-If scheduling
- Microprocessor, Flight Software (FSW), Table, and Relative Time Sequence (RTS) load generation and load uplink scheduling
- TDRSS contact scheduling
- Detailed Activity Schedule (DAS) creation, Absolute Time Command (ATC) load generation, and ATC load uplink scheduling
- Late change/Target of Opportunity (TOO) scheduling

<u>Test Configuration</u>:

Hardware and software configurations at each ECS site are managed and tracked by the M&O organization at that site. The most current system configuration will be obtained prior to the start of testing and noted in the test procedures.



Participants and Support Requirements:

Participants:

EBnet,

EDOS M&O,

GSFC DAAC M&O,

I&T Test Conductor,

NCC M&O, (Dec 97)

SDVF (SDF VF) M&O

Communications:

Voice:

SCAMA 72 EOC, NCC

SCAMA 264 EOC, SDVF (SDF VF)

SCAMA?? EOC, ISTs
CCL 74 EOC, EDOS
CCL 94 EOC, EDOS, ETS
CCL ?? EOC, GSFC DAAC

Data:

EBnet circuit from EOC to FDD workstation EBnet circuit from EOC to GSFC DAAC EBnet circuit from EOC to EDOS

EBHOT CHOCKE HOM EGO TO EB OS

EBnet circuit from EOC to SDVF (SDF VF)

EBnet - Open IONET - Nascom Secure Gateway - Closed IONET - Multicast Router - NCC circuit

EBnet - GSFC Router - Tokyo Router - ADN - ECS IST - ASTER ICOS circuit EBnet - NSI circuit from EOC to CERES, MISR, MODIS, and MOPITTSTs

IP addresses:

EOC Operational LAN 198.118.199.0 EOC Support LAN 198.118.200.0

NCC TBD
EDOS FLP 225.2.7.10
ASTER TBD

Equipment and Software:

Hardware:

FDD workstation

GSFC DAAC

EDOS Version 3

SDVF (SDF VF)

NCC Test System (NTS) or NCC Data System (NCCDS)

ECS IST, ASTER ICOS

CERES, MISR, MODIS, and MOPITT ISTs

FOS Release B Hardware

Software:

FDD Software

GSFC DAAC Software

EDOS Version 3 Software

SDVF (SDF VF) Software

NTS or NCCDS Software

ECS IST Software, ASTER ICOS Software

CERES, MISR, MODIS, and MOPITT ISTs Software

FOS Release B Software

Test Tools:

NCC Development, Test, and Training (NCC DT&T) System

Test Data:

Description/Characteristics	Source	File/Script Name &
		Location

Description/Characteristics	Source	File/Script Name & Location
FDD Planning and Scheduling Products OMNI to TDRSS Viewing Times HGA to TDRSS Viewing Times OMNI to Ground Station Viewing Times HGA Gimbal Angles Predicted EOS-AMEphemeris Orbit Adjust Maneuver Request Predicted Orbital Events Planned Orbit ManeuverDataset Solar/Lunar Azimuth and Elevation Angles Solar Beta Angles Predicted Local Sun Time Lunar Beta Angles MODIS/MISR Sun/Moon FOV Events MODIS/MISR Planet/Star FOV Events Predicted Sub-Satellite PointDataset Predicted Spacecraft Altitude Predicted Spacecraft Day/Night Length SLP Ephemeris X-Band Interference Times Apogee/Perigee Altitude File Predicted Orbit Number and Time Dataset Predicted Instrument Orbit Events X-Band Ground Station Contact Times MODIS FOV Target View Period	FDD workstation	
Products sent from EOC to ASTER: Orbit data anomaly notifications Repair orbit & attitude data	FDD	
Products sent from EOC to GSFC DAAC: Orbit data anomaly notifications Repair orbit & attitude data	FDD	
Instrument activity definitions (for ASTER, CERES, MISR, MODIS, and MOPITT)	IOTs	
Instrument BAPs (one each for CERES, MISR, MODIS, and MOPITT)	IOTs	
Instrument constraint definitions	IOTs	
ASTER Short Term Schedules \$TSs)	ASTER IOT	
ASTER One Day Schedules QDSs)	ASTER IOT	
ASTER Request for EOC Schedules	ASTER IOT	
Instrument microprocessor loads in	IOTs	
binary format		
(one each for CERES, MISR, MODIS, and MOPITT)		
Flight software load in binary format	SDVF (SDF VF)	
FDD table load in ASCII format	FDD workstation	

Test Case Descriptions:

EOC3.1 Deleted

The Long Term Planning test case has been deleted and the requirements reassigned or considered not testable. Long term planning does not directly involve FOS software processing beyond the ability to ftp files.

EOC3.1 was originally intended to:

Verify that the EOC can ingest and/or access long term plans. The EOC will ingest and/or access the LTSP from the project scientist and the IWG. The EOC will also ingest and/or access an LTIP from each PI/TL and the project scientist. The EOC will generate a long term spacecraft operations plan based on the LTSP, LTIPs, and other spacecraft activities that have potential to impact mission operations.

EOC3.2 FDD Planning and Scheduling Products

This test case verifies that the EOC can ingest FDD planning and scheduling products from the FDD workstation via ftp. The EOC will display an event message notifying the user that new FDD data has been received and the ingested products will be displayed on the mission timeline. The EOC will automatically make these products available to ASTER and the GSFC DAAC via ftp.

Requirements to be Verified:

EOC-1005#B

EOC-2010#B

EOC-2030#B

EOC-3017#B

EOC3.3 Activity, BAP, and Constraint Definition

This test case verifies that activities, BAPs, and constraints can be defined for instruments and spacecraft subsystems. Activities for the ASTER, CERES, MISR, MODIS, and MOPITT instruments will be defined via the ISTs. Activities for spacecraft subsystems will be defined via the EOC. Activities will contain commands, offset times relative to activity start and stop, modifications to command parameters, mode transitions, complex activities, ECL directives, and command procedures. BAPs for the CERES, MISR, MODIS, and MOPITT instruments will be defined via the ISTs. BAPs will contain activities, offset times, and modifications to command parameters. Instrument and spacecraft subsystem command constraints will reside in the PDB prior to the test, however activity constraints will be defined via the EOC during the test.

Requirements to be Verified:

EOC-2030#B	EOC-2190#B	EOC-2240#B	EOC-2480#B
EOC-2070#B	EOC-2200#B	EOC-2270#B	EOC-2482#B
EOC-2170#B	EOC-2210#B	EOC-2272#B	
EOC-2180#B	EOC-2220#B	EOC-2460#B	

EOC3.4 General Scheduling

This test case verifies that activities, BAPs, commands, and command procedures representative of a nominal day can be scheduled against the master plan of the mission timeline. The items above will be scheduled in impact, no impact, and no impact with oversubscription modes. The items will be scheduled with start and stop time combinations of absolute times, orbital event times, and durations. Hard and soft constraint violation information will be displayed on the timeline.

Rec	uirements	to	be	Ve	rifie	d:

EOC-2030#B	EOC-2190#B	EOC-2240#B	EOC-2310#B	EOC-3024#B
EOC-2070#B	EOC-2200#B	EOC-2280#B	EOC-2320#B	
EOC-2170#B	EOC-2210#B	EOC-2290#B	EOC-2350#B	
EOC-2180#B	EOC-2220#B	EOC-2300#B	EOC-2540#B	

EOC3.5 ASTER Scheduling

This test case verifies that the EOC can support ASTER scheduling. The ECS IST will ingest ASTER STSs in schedule and analysis (what-if) modes. After constraint checking, the activities in the schedule mode STS will be scheduled on the master mission plan. A Preliminary Resource Schedule (PRS) will be generated and transmitted to the ASTER ICC via the ECS IST. The activities in the analysis mode STS will be scheduled against a what-if plan. A PRS will be generated and transmitted to the ASTER ICC via the ECS IST. The ECS IST will ingest ASTER ODSs in schedule and analysis (what-if) modes. After constraint checking, the activities in the schedule mode ODS will be scheduled on the master mission plan. An Activity Schedule (ACS) will be generated and transmitted to the ASTER ICC via the ECS IST. The activities in the analysis mode ODS will be scheduled against a what-if plan. An ACS will be generated and transmitted to the ASTER ICC via the ECS IST. The ECS IST will ingest a Request for EOC Schedules. The ECS IST will generate an ACS for all subsystems and instruments for the requested timeframe and send it to the ASTER ICC.

Requirements to be Verified:

EOC-2030#B	EOC-2190#B	EOC-2240#B	EOC-2300#B	EOC-2480#B
EOC-2070#B	EOC-2200#B	EOC-2260#B	EOC-2310#B	EOC-2540#B
EOC-2170#B	EOC-2210#B	EOC-2280#B	EOC-2320#B	
EOC-2180#B	EOC-2220#B	EOC-2290#B	EOC-2350#B	

EOC3.6 What-If Scheduling

This test case verifies that the EOC can perform what-if scheduling. Activities, BAPs, commands, and command procedures will be scheduled against a what-if plan of the mission timeline. The items above will be scheduled in impact, no impact, and no impact with oversubscription modes. The items will be scheduled with start and stop time combinations of absolute times, orbital event times, and durations. Hard and soft constraint violation information will be displayed on the timeline . Activities will be cut and pasted between the what-if plans and the master plan.

Requirements to be Verified:

EOC-2260#B

EOC3.7 Microprocessor, FSW, Table, and RTS Load Generation and Uplink Scheduling

This test case verifies that the EOC can generate and schedule uplink times for microprocessor, FSW, table, and RTS loads. Instrument microprocessor load contents files (in binary format) from the CERES, MISR, MODIS, and MOPITT ISTs will be ingested and validated. The microprocessor uplink loads, the load reports, and the load image files will be generated, and the load catalog will be updated. The microprocessor loads will be scheduled for uplink. A FSW load contents file (in binary format) from the SDVF (SDF VF) will be ingested and validated. The FSW uplink load, the load report, and the load image file will be generated, and the load catalog will be updated. The FSW load will be scheduled for uplink. A table load contents file (in ASCII format) from FDD will be ingested and validated. The table uplink load, the load report, and the load image file will be

generated, and the load catalog will be updated. The table load will be scheduled for uplink. A RTS load contents file will be generated and validated at the EOC. The RTS load, the load report, and the load image file will be generated, and the load catalog will be updated. The RTS load will be scheduled for uplink.

Requirements to be Verified:

AM1-0270#B	EOC-3050#B	EOC-3160#B	EOC-4010#B
EOC-3015#B	EOC-3070#B	EOC-3200#B	
EOC-3020#B	EOC-3086#B	EOC-3210#B	
EOC-3030#B	EOC-3090#B	EOC-3240#B	

EOC3.8 TDRSS Contact Scheduling

This test case verifies that the EOC can formulate and submit TDRSS schedule requests. Following schedule submission, the NCC will respond with schedules or notifications of rejection along with the reasons for rejection. The schedules will be displayed on the master plan of the mission timeline. The EOC will automatically transfer the schedules to EDOS via ftp. The ISTs will access the scheduled contacts via the timeline.

Requirements to be Verified:

-				
EOC-2030#B	EOC-2200#B	EOC-2280#B	EOC-2350#B	EOC-2420#B
EOC-2070#B	EOC-2210#B	EOC-2290#B	EOC-2370#B	EOC-2540#B
LOC-207011D	LOC-221011D	LOC-227011 D	LOC-237011D	LOC-23+011D
EOC 2170#D	EOC-2220#B	EOC-2300#B	EOC 2400#D	EOCD 15204D
EOC-2170#B	EUC-2220#B	EUC-2300#B	EOC-2400#B	EOSD1520#B
EOC 2100//D	EOC 224011D	EOG 2210/ID	EOC 2405 UD	EOGD1520#D
EOC-2180#B	EOC-2240#B	EOC-2310#B	EOC-2405#B	EOSD1530#B
	7000000	TO C		
EOC-2190#B	EOC-2250#B	EOC-2320#B	EOC-2410#B	
D OC 217011 D	100 223011B	E00 232011B	EGC ZIIONB	

EOC3.9 DAS Creation and ATC Load Generation

This test case verifies that the EOC can generate a conflict-free DAS and a corresponding ground script and ATC load. For the first DAS/ATC attempt, the schedule will contain hard constraint violations, therefore, the DAS/ATC will not be generated. The user will be notified of the hard constraint violation information. The hard violations will be corrected on the timeline and the user will attempt to generate the DAS/ATC again. The user will be notified of all soft constraint violations. After the user approves the soft violations, the DAS/ATC will be generated. The binary ATC load, the ATC load report, and the integrated report will be generated, and the load catalog will be updated. The DAS will be sent from the ECS IST to the ASTER ICC. The DAS will also be sent from the EOC to the GSFC DAAC. All ISTs will access the ATC load report and the integrated report. The ATC load partitions will be scheduled for uplink.

Requirements to be Verified:

EOC-2030#B	EOC-2200#B	EOC-2490#B	EOC-2550#B	EOC-3160#B
EOC-2160#B	EOC-2210#B	EOC-2510#B	EOC-2620#B	EOC-3200#B
EOC-2170#B	EOC-2220#B	EOC-2520#B	EOC-3050#B	EOC-3210#B
EOC-2180#B	EOC-2240#B	EOC-2530#B	EOC-3070#B	EOC-3240#B
EOC-2190#B	EOC-2350#B	EOC-2540#B	EOC-3086#B	EOC-4010#B

EOC3.10 Late Change/TOO Scheduling

This test case verifies that the EOC can accept late changes via the ISTs and update the DAS/ATC accordingly. The portion of the master plan of the mission timeline corresponding to the late changes will be unlocked, the late changes will be incorporated, and constraint checks will be

performed. Additional TDRSS schedules will be requested if necessary to account for the late changes. An updated DAS and ATC load will be generated for the late changes.

Requirements to be Verified:

EOC-2520#B	EOC-2570#B	EOC-3226#B	ICC-3070#B
EOC-2530#B	EOC-2590#B	ICC-2350#B	ICC-3071#B
EOC-2540#B	EOC-2620#B	ICC-2370#B	ICC-3085#B
EOC-2555#B	EOC-3225#B	ICC-2380#B	

<u>Test Procedures:</u>

Test Set-up:

Step	Station	Action	Expected Results	Comments
1.	EOC	If the Data Server (DS) and Real Time Server		
		(RTS) are running, skip to step23 to start a User		
		Work Station (UWS).		
2.	EOC	Log onto the Data Server at the Data Server	UNIX CmdTool window(s) open.	
		console:	Note: Startup and shutdown procedures can be	
		IVVTEST.	found in the Operations Tools Manual section	
		Enter password:	4.2.4.	
		IVVTEST1.		
3.	EOC	Open two Xterm windows	Two Xterm windows open.	
		Xterm -n DataServer & (optional)	One Xterm window has a title of DataServer.	
		Xterm &		
4.	EOC	In Xterm window check endpoints on entire	There should be "0 rows affected" if the system is	
		system:	down correctly.	
		setup (or cd /fosb/test/am1/scripts/setup	If the number is about 51 probably just the	
		show_all.sh	Reflectors are up (onDataServer).	
5.	EOC	As an alternative toshow_all.sh, thesybase tables	There should be "0 rows affected" if the system is	
		can be accessed via the following commands:	down correctly.	
		sql (alias forisql -Ufos_dba -Pfos_dba)	If the number is about 51 probably just the	
		use am1_fos_ops	Reflectors are up (onDataServer).	
		go		
		select * fromname_srvr		
		go		
6.	EOC	As an alternative to using the "show" script oisql	FOS Database Access Page displayed. If not	
		you can useNetscape:	automatically displayed, checlNetscape for a	
		Bring up the FOSHomepage onNetscape:	bookmark. If no bookmark enter theirl:	
		netscape &	http://198.118.199.20/FosDbHome.html	

Step	Station	Action	Expected Results	Comments
7.	EOC	Verify no endpoints exist:	"Total matches = 0".	
		Click on Nameserver Database	Note: If any endpoints exist watch for live	
		Click on Clear Form	processes/endpoints on the Data Server, Real	
		Click on Submit.	Time Server, and on User Stations in the	
			following steps. They must all be removed/killed	
			prior to system startup.	
8.	DS	Check for live processes and Reflectors.	Current processes will be displayed along with	
		setup	owner.	
		ps -aux	Note: can also use 'ps -ea"	
9.	DS	Kill all undesirable processes - Processes with a	The user may need to be logged in as the owner o	f
		/fosb/test/am1/bin/ prefix and owner is not	the processes in order to kill them.	
		"root" (there may be others). Be cautious of		
		processes with names likeFmCwControlWindow		
		or FdEvEventHandler.		
		For Reflectors see next step.		
		Initially, as process owner, use MyKill to		
		shutdown the process. If processes are still active		
		use kill -2 "pid" for each active process, then use		
		kill -9 'pid' for each undesirable process.		
		Type ps -aux again to verify.		
10.	DS	If Reflector processes exist kill them and recheck	rkill is a script created by DianeWomack	
		processes:		
		rkill	<u>ps</u> - no undesirable processes should be alive	
		ps -aux	<u>rm</u> - Removes all endpoints imame_srvr.	
		rm_all.sh	$\underline{\text{show}}$ - number of rows affected = 0	
		show_all.sh		
11.	DS	In the 'DataServer' Xterm source the	The script will take 2- 3 minutes to complete.	
		DataServerStartup shell script from directory:		
		/fosb/test/am1/scripts/setup.	Reflectors added about 12 minutes after DS	
		setup	completion.	
		source DataServerStartup		

Step	Station	Action	Expected Results	Comments
12.	DS	Observe in the UNIX window:	If this message is not displayed, first wait a little	
		"Resource Model done loading Pools."	longer, while waiting check the number of	
			processes on the Data Server viæhow.sh	
			(or netscape). Most likely cause of failure is the	
			presence of processes/endpoints prior to startup of	
			Data Server.	
			If startup appears unsuccessful, perform next step	
			to check for processes.	
13.	EOC	In the xterm window, check number of processes	$\underline{\text{show}}$ - number of rows affected = 81	
		on DataServer:	$\underline{\text{show_all}}$ number of rows affected = 132	
		show.sh	(81 processes plus 51 Reflectors)	
		show_all.sh		
			If the number of endpoints does not equal 81, be	
		If using Netscape:	sure startup has completed, if so, typeMyKill, in	
		From Netscape, verify that 81 endpoints are now	Data Server's UNIX window, recheck for	
		found by submitting a blank form.	processes on all servers, and restart.	
		Back	The Reflectors are needed for IST	
		Submit	communications. Ifrefelctors are missing or in	
			excess no action is needed unless working with	
			the ISTs	
14.	RTS	Log onto the Real Time Server as	Successfullogin to Real Time Server.	
		IVVTEST.		
		Enter password:		
		IVVTEST1.		

Step	Station	Action	Expected Results	Comments
17.	RTS	Kill all undesirable processes - Processes with a /fosb/test/am1/bin/ prefix and owner is not "root" (there may be others). Be cautious of processes with names like "FmCwControlWindow". Initially, as process owner, useMyKill to shutdown the process. If processes are still active use kill -2 "pid" for each active process, then use kill -9 'pid" for each undesirable process. Type ps -aux again to verify.	The user may need to be logged in as the owner of the processes in order to kill them.	
18.	RTS	Change directory and check for live endpoints on Real Time Server: setup (or cd /fosb/test/am1/scripts/setup show.sh	$\underline{\text{show}}$ - number of rows affected = 0	
19.	RTS	In the Real Time Serverxterm, source the RealTimeServerStartupshell script from directory: /fosb/test/am1/scripts/setup. setup source RealTimeServerStartup	The script will take about 5 minutes to complete.	
20.	RTS	Observe in the UNIX window: For FOS version 2.0.0: "Creating aptp coupler"	Note: For FOS version 2.0.0, wait for "Creating a ptp coupler" There should not be any 'FORMAT Problemxxx-socket error'. This is an indication that endpoints existed prior to startup.	The completion status and endpoint count are subject to change.

Step	Station	Action	Expected Results	Comments
21.	EOC	Check number of processes or DataServer: show.sh	$\underline{\text{show}}$ - number of rows affected = 33	
ı		If using Netscape: From Netscape, verify that 33 endpoints are now found by submitting a form specifying the RTS. Back <rts name="">in Entry ID field Submit</rts>	If the number of endpoints does not equal 33, be sure startup has completed, if so, type MyKill, in RealTimeServer's UNIX window, recheck for processes on all servers, and restart. DataServer can be left up, if processes are correct.	
22.	EOC	Leave Data Server and Real Time Server window open to view statuses.	s	
23.	UWS	Log onto an EOC User Work Station Enter your user name. Enter your password.	CmdTool windows open. NOTE: UWS can be brought up anytime after DataServer is running. If UWS is up prior to completion of RTS startup, the Event message "String 100 successfully created" indicates the successful completion of RTS startup.	
24.	EOC	Open Xterm windows Xterm -n UserStation & (optional) Xterm &	Two Xterm windows open. One Xterm window has a title ofUserStation.	
25.	UWS	Change directory and check for live processes. setup (or cd /fosb/test/am1/scripts/setup) ps -aux	Current processes will be displayed along with owner. There should be no undesirable processes If so, run MyKill as owner of processes. Then attempt 'kill -2pid#'. Only use 'kill -9' is a last resort.	
26.	UWS	Check for live endpoints on User Work Station: show.sh	show - number of rows affected = 0	

Step	Station	Action	Expected Results	Comments
27.	UWS	In the UserStation Xterm, source the	The script will take 3 - 4 minutes to complete.	If CCS
		UserStationStartupshell script from directory:	The following eight planning and scheduling	window
		/fosb/test/am1/scripts/setup.	windows will open:	does not
		setup	-Activity Recycler	appear,
		source UserStationStartup.pas	-BAP Definer	there is a
			-Activity Definer	Work
		If not using Planning and Scheduling functions ca		Around
		source UserStationStartup.nopas	-EOS Timeline	available.
			-Load_Generation	If CCS is
		Show.sh can be used on the UWS to verify that 9	-General Scheduler	not needed
		processes exist on the UWS. (There are 9	-Communications Contact Scheduler (CCS).	the WA
		processes at startup prior to opening FOS tools,	A Control_Window will open last.	does not
		windows, etc)		need to be
				performed.
28.	UWS	The 8 planning and scheduling windows can be	If there are not 8 planning and scheduling icons	
		Iconized.	and the Control Window, first wait a little longer;	
			while waiting check the number of processes on	
			the user station viashow.sh. Correct number of	
			user station endpoints is 9 with PAS (8 w/o)	
			If unsuccessful startup, typeMyKill, in user	
			Station's UNIX window, kill undesirable	
			processes, and restart user station only. If still	
			unsuccessful call for help, you'll probably perform	n
			a complete shutdown and restart!	
29.	UWS	Bring up Event_Display window.	Event_Display may take a few minutes to appear.	
		Click on 'Tools" button in Control Window,		
		select Event_Display_Global and OK.		
30.	UWS	Issue the ECL directive to connect to string 100:	Event message: "Successfully connected to String	
		STRING CONNECT STRING=100 CONFIG=		
		MIRROR	Approximately a 2- 3 minute wait.	

Step	Station	Action	Expected Results	Comments
31.	UWS	From a UNIX window, different from the window		
		used for User startup, run the SI&Tuserstation configuration recording script:	connect! Creates a file calledtestconfig.	
		TBD	Creates a file calledestcomig.	
32.	UWS	From the UNIX window, rename the testconfig		
		file.		
		TBD		
33.	UWS	Record the system configuration.	FOS LAN:	
		Identify other pertinent configuration information		
		at the bottom of this page.	FOS version:	
		Enter N/A if Not Applicable.	PDB version:	
			EDOS version:	
			MPS version:	
			HRS version:	
34.	UWS	Enable telemetry data archiving.	An event message stating that telemetry archiving	
		ARCHIVE TLM =ENABLE <pre></pre>	is enabled.	

Other pertinent configuration informatione(g; DS, RTS, other UWS, concurrent activitiesetc):

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<u>Test Execution:</u>

EOC3.1 Long Term Plans has been deleted

EOC3.2 FDD Planning and Scheduling Products

Step	Station	Action	Expected Results	Comments
1.	EOC	Verify that all FDD products have been	The FDD products reside in the appropriate	- list of necessary
		ingested via ftp from the FDD workstation	directory at the EOC	FDD products to
				verify is included in
				Test Data section
2.	EOC	Verify FDD orbital products are made availabl	eThe FDD products transferred to ASTER and	- list of products
		to ASTER and the GSFC DAAC via ftp	the GSFC DAAC and reside in the appropriate	that go to ASTER
			directory	and GSFC DAAC is
				included in Test
				Data section

EOC3.3 Activity, BAP, and Constraint Definition

Activity:

RESOURCE: AM1, ACTIVITY TYPE: Standard,

Select commands w/relative offset times (ground & ATC commands)

Modify the commandsubmnemonics

Edit Mode Transitions

Edit Complex Activities

Edit ECL Directives

Edit Command Procedures

Edit Scheduling Information

Enter an Activity Description

Save Activity

Repeat for each activity Defined in Appendix C (Instrument and Spacecraft)

BAP:

Include activities

modify command submnemonics

scheduling information

Start Time, Duration, Frequency

Save BAP

Constraint_Definer

Activity/Mode/Event

Soft/Hard

Type: nbd, bdd, nswpa, swpa, newp, ewpa

Step	Station	Action	Expected Results	Comments
1.	EOC	Bring up the General Scheduler window: click on the Tools button on the Control window, select Planning and Scheduling from the Tool Type option menu, and select General Scheduler		

Step	Station	Action	Expected Results	Comments
3.	EOC	Bring up the Activity Definer window: click on the Tools button on the Control window, select Planning and Scheduling from the Tool Type option menu, and select Activity Definer	Activity Definer window is displayed	
4.	EOC	Using the Activity Definer window, define the following instrument activities: See EOC3 Appendix C for activities.	Activities are defined which incorporate ground and ATC commands, relative times for the commands, modifications to command parameters, mode transitions, ECL directives, procedures, and complex activities	Steps 6-25 use the Activity Definer window
5.	EOC	Define the following spacecraft subsystem activities: See EOC3 Appendix C for activities.	Activities are defined which incorporate ground and ATC commands, relative times for the commands, modifications to command parameters, mode transitions, ECL directives, procedures, and complex activities	
6.	EOC	Define a new activity: click on the Activity Definer File menu and select New	New window is displayed	
7.	EOC	Enter EOC3_RESOURCE_ACT_#_FR for the activity name, select AM RESOURCE as the resource, select Standard as the Activity Type, and click OK	New window is no longer displayed, activity name and resource name appear in the window	
8.	EOC	Incorporate commands into the activity: click on the Activity Definer Modify menu and select Commands	Commands window is displayed	
9.	EOC	Select each command from the Available Commands list, enter the offset time, and click Add	The commands are displayed in the Selected Commands portion of the Commands window	
10.	EOC	Click Apply and then click OK	Commands window is no longer displayed, commands appear in the Items portion of the Activity Definer window	
11.	EOC	Edit command parameters: click on the Activity Definer Modify menu and select Parameters	Parameters window is displayed	

Step	Station	Action	Expected Results	Comments
12.	EOC	Select the command from the Commands list,	Parameters window is no longer displayed,	
		click on the parameter from the Parameters list	, command parameters are displayed in the Items	
		enter a valid value, and click Apply and OK	portion of the Activity Definer window	
13.	EOC	Edit mode transitions:	Modes window is displayed	
		click on the Activity Definer Modify menu and		
		select Modes		
14.	EOC	Select the mode from the Available Modes list		
		enter offset time, and click Add, Apply, and	transitions appear in the Items portion of the	
		OK	Activity Definer window	
15.	EOC	Edit complex activities:	Complex Activities window is displayed	
		click on the Activity Definer Modify menu and		
		select Complex Activities		
16.	EOC	Select the complex activity from the Available	1	
		Activities list, enter offset time, and click Add,	displayed, complex activities appear in the	
		Apply, and OK	Items portion of the Activity Definer window	
17.	EOC	Edit ECL directives:	ECL Directives window is displayed	
		click on the Activity Definer Modify menu and	l .	
1.0	700	select ECL Directives		
18.	EOC	Enter the ECL directive in the ECL Command	ECL Directives window is no longer displayed,	
		Language Editor, enter the offset time, and	ECL directives appear in the Items portion of	
10	FOG	click Add, Apply, and OK	the Activity Definer window	
19.	EOC	Edit command procedures:	Command Procedures window is displayed	
		click on the Activity Definer Modify menu and	l	
20	EOC	select Command Procedures	C	
20.	EOC	Select the command procedure from the	Command Procedures window is no longer	
		Available Command Procedures list, enter	displayed, command procedures appear in the Items portion of the Activity Definer window	
21.	EOC	offset time, and click Add, Apply, and OK Edit Scheduling Information:	Activity Default Scheduling Information	
21.	LUC	click on the Activity Definer Modify menu and		
		select SchedulingInfo	willdow is displayed	
22.	EOC	Enter scheduling information, click Apply and	Activity Default Scheduling Information	
<i>LL</i> .	EUC	OK	window is no longer displayed	
		OIX	window is no longer displayed	

Step	Station	Action	Expected Results	Comments
23.	EOC	Click on the Activity Description box and ente an activity description: "This activity is defined for the AM1 RESOURCE as part of the EOC3 (dry/formal) run test.	r Activity description is displayed in the box	
24.	EOC	Select Save from the Activity Definer File menu item	The activity is saved	
25.	EOC	Select Close from the Activity Definer File menu item	The activity is closed	
26.	EOC	Using the General Scheduler window, verify instrumentBAPs have been defined by the ISTs: verify that at least one BAP for each instrument (except ASTER) is displayed in the BAPs section of the General Scheduler window	BAPs include activities, modifications to command parameters, and offset times for the activities	
27.	EOC	Bring up the BAP Definer window: click on the Tools button on the Control window, select Planning and Scheduling from the Tool Type option menu, and select BAP Definer	BAP Definer window is displayed	

Step	Station	Action	Expected Results	Comments
28.	EOC	Define the following spacecraft subsystem BAPs: EOC3_ELEC_BAP_1_FR: (EPS resource)	BAPs are defined which include activities, modifications to command parameters, and scheduling information	Steps 29-40 use the BAP Definer window
29.	EOC	Define a new BAP: click on the BAP Definer File menu and select New	New window is displayed	
30.	EOC	Enter EOC3_RESOURCE_BAP_#_FR for the BAP name, select AM1RESOURCE as the resource, and click OK	New window is no longer displayed	
31.	EOC	Incorporate activities into the BAP: click on the BAP Definer Modify menu and select Activity List	Activity List window is displayed	
32.	EOC	Select the activities from the Available Activities list and click Add	The activities are displayed in the Activities within this BAP window	
33.	EOC	Click Apply and then click OK	Activity List window is no longer displayed, activities appear in the BAP Activities portion of the BAP Definer window	
34.	EOC	Edit command parameters: click on the BAP Definer Modify menu and select Command Parameters	Command Parameters window is displayed	

Step	Station	Action	Expected Results	Comments
35.	EOC	Select the activity from the Activity list, select the command from the Commands list, and select a parameter from the Parameters list	The activity, command, and parameter are highlighted	
36.	EOC	Enter valid modified parameter values, click Apply and OK	Command Parameters window is no longer displayed, command parameters are displayed in the BAP Activities portion of the BAP Definer window	
37.	EOC	Enter scheduling information: click on the BAP Definer Modify menu and select SchedulingInfo	Periodic Scheduling Information window is displayed	
38.	EOC	Select the activity from the Activity List, enter the times, and click Apply and OK	Scheduling Information window is no longer displayed, scheduling information is displayed in the BAP Activities portion of the BAP Definer window	
39.	EOC	Select Save from the BAP Definer File menu item	The BAP is saved	
40.	EOC	Select Close from the BAP Definer File menu item	The BAP is closed	
41.	EOC	Bring up the Constraint Definer window: click Tools , Constraint Definer OK	Constraint Definer window is displayed	
42.	~	Define the following constraints: EOC33_NBD_FR EOC33_BD_FR EOC33_NSWPA_FR EOC33_SWPA_FR EOC33_NEWPB_FR EOC33_EWPB_FR	Constraints of the following types are defined: "not be during", "be during", "not start within period after", "start within period after", "not end within period before", and "end within period before".	Use Constraint Definer window per OTM 8.4.2.3.1
43.	EOC	Define a new constraint: click on the Constraint Definer Modify menu and select Add Constraint	Constraint Definition window is displayed	

Step	Station	Action	Expected Results	Comments
Step 44.	EOC	Enter the Constraint name:EOC33_NBD_FR left-hand resource:AM1 MISR Activity/Mode/Event:Activity Option: MISR_ATC1.1 select SHOULD (soft constraint) constraint type:not end within period before right hand resource: AM1 MOPITT Activity/Mode/Event: Mode Option: Idle description:EOC3.3 soft nbd In the Constraint Definer menu bar select File, Save	The newly defined constraint appears in the Constraint Definer window under All Constraints.	Comments
45.	EOC	Repeat previous step using the parameters defined in Exhibit EOC3.3-1 Constraint Definitions to define a total of six constraints.		
46.	EOC	In the Constraint Definition window click Apply and OK	Constraint Definition window is no longer displayed and the newly defined constraint appears in the Constraint Definer window under All Constraints	
47.	EOC	Modify existing constraint EOC33_nbd. Change the type from end within period before to not be during following procedures in OTM 8.4.2.3.2	The newly modified constraint appears in the Constraint Definer window under All Constraints with the type - not be during.	Use Constraint Definer window per OTM 8.4.2.3.2
48.	EOC	Incorporate activities into the BAP: click on the BAP Definer Modify menu and select Activity List	Activity List window is displayed	
49.	EOC	Select the activities from the Available Activities list and click Add	The activities are displayed in the Activities within this BAP window	

EOC3.4 General Scheduling Open General Scheduler

Open Timeline

Open Master Plan

Schedule Activities -

Impact mode

Non-Impact

One activity not scheduled due to conflict w/ another activity

Oversubscription

Two activities scheduled overlapping existing activities T(odo)

Schedule BAPs

Impact

Non-Impact

One BAP not scheduled due to conflict w/ another activity

Oversubscription

Two BAPs scheduled overlapping existing activities Todo)

Schedule Commands

Impact

Non-Impact

One command not scheduled due to conflict w/ another activity

Oversubscription

Two commands scheduled overlapping existing activities

Schedule Procs

Impact

Non-Impact

One proc not scheduled due to conflict w/ another activity

Oversubscription

Two procs scheduled overlapping existing activities

Step	Station	Action	Expected Results	Comments EOC3.4
1.	EOC	Bring up the General Scheduler window: click on the Tools button on the Control window, select Planning and Scheduling from the Tool Type option menu, and select General Scheduler	General Scheduler window is displayed	
2.	EOC	Bring up the Timeline window: click on the Tools button on the Control window, select Planning and Scheduling from the Tool Type option menu, and select Timeline	Timeline window is displayed	
3.	EOC	Click on the File menu item in the Timeline an select Open	dOpen Plan window is displayed	
4.	EOC	Select the Master Plan, select Start and Stop times of 1999/175 00:00:00 - 1999/176 00:00:00, and click OK	Timeline for the 1999/175 time range is displayed	
5.	~	Schedule Activities in ImpactNoImpact, and NoImpact withOversubscription modes against the Master Plan and the what-if plan		
6.	EOC	Click on the Acts toggle button in the General Scheduler window	Activities defined in EOC3.3 are displayed in the Activities section of the window for each resource	
7.	EOC	Select the Master Plan from the Open Plans List in the General Scheduler window	Activities will be scheduled against the Master Plan	
8.	EOC	Click on the Impact toggle button	Activities will be scheduled in impact mode	

Step	Station	Action	Expected Results	Comments EOC3.4
9.	EOC	Schedule the following activities:	All activities are displayed on the Timeline for	
		6	the appropriate resource and time	schedule the
		See EOC3 Appendix C for activities.	6/24/99 00:59:55-01:01:05	activities
		11		
		EOC3_ASTER_ACT_1_FR		
		Start Time: 1999/175 01:00:00	6/24/99 01:55:00-02:20:00	
		Stop Time: 1999/175 01:01:00	Standby 6/24/99 02:00:30- 1/19/2058 03:14:06	
		EOC3_CERESF_ACT_1_FR		
		Start Time: 1999/175 02:00:00	6/24/99 04:55:00-06:49:21	
		Stop Time: 1999/175 02:15:00	Science Day 6/24/99 04:55:00- 1/19/2058	
		EOC3_MODIS_ACT_1_FR	03:14:06	
		Start Time: 1999/175 05:00:00		
		Stop Event: Orbit 151, Sequence 1,	6/24/99 02:14:30-07:16:10	
		Sunset +00:01:00		
		EOC3_MOPITT_ACT_1_FR		
		Start Time: 1999/175 02:15:00	6/24/99 07:02:35-10:00:05	
		Duration: 5 hours		
		EOC3_CDH_ACT_1_FR		
		Start Event: Orbit 152, Sequence 1,		
		Sunrise -02:00:00	6/24/99 16:54:19-18:04:19	
		Stop Time: 1999/175 10:00:00		
		EOC3_COM_ACT_1_FR		
		Start Event: Orbit 155, Sequence 1,		
		Sunrise +03:00:00	5/24/00 17 77 05 15 15 05	
		Stop Event: Orbit 155, Sequence 1,	6/24/99 15:57:26-16:16:26	
		Sunrise +04:00:00		
		EOC3_EAS_ACT_1_FR		
		Start Event: Orbit 159, Sequence 1, Sunset -04:00:00	6/24/00 19:00:00 10:00:00	
			6/24/99 18:00:00-19:00:00	
		Duration: 15 minutes EOC3_EPS_ACT_1_FR		
		Start Time: 1999/175 18:00:00	6/24/99 23:00:00-23:45:00	
		Start Time: 1999/173 18.00.00 Stop Time: 1999/175 19:00:00	0/24/77 23.00.00-23.43.00	
		EOC3_GNC_ACT_1_FR		
		Start Time: 1999/175 23:00:00		
	}	Stop Time: 1999/175 23:45:00	EOC3-27	

Step	Station	Action	Expected Results	Comments EOC3.4
10.	EOC	Change the resource to schedule against to <i>RESOURCE</i> , select the desired activity, enter the times, and click the Schedule button	All activities are displayed on the Timeline for the appropriate resource and time	
11.	EOC	Click on the No Impact toggle button	Activities will be scheduled in non-impact mode	
12.	EOC	Schedule the following activities: EOC3_CERESF_ACT_2_FR Start Time: 1999/175 02:00:00 Stop Time: 1999/175 02:10:00 EOC3_MISR_ACT_1_FR Start Time: 1999/175 20:00:00 Stop Time: 1999/175 20:10:00 EOC3_PMS_ACT_1_FR Start Time: 1999/175 21:00:00 Stop Time: 1999/175 23:30:00 EOC3_TCS_ACT_1_FR Start Time: 1999/175 22:00:00 Stop Time: 1999/175 23:00:01	EOC3_CERESF_ACT_2_FRis not displayed on the Timeline due to the conflict with EOC3_CERES_ACT_1_FR, all other activities are scheduled 6/24/99 19:58:00-20:12:00 6/24/99 21:00:00-23:30:00	Use Step 10 to schedule the activities
13.	EOC	Click on the Oversubscribe toggle button.	Activities will be scheduled in non-impact with oversubscription mode	1
14.	EOC	Schedule the following activities: EOC3_tbd_ACT_1_FR EOC3_tbd_ACT_1_FR EOC3_tbd_ACT_1_FR	All activities are displayed on the Timeline for the appropriate resource and time	Use Step 10 to schedule the activities
15.	~	ScheduleBAPs in Impact,NoImpact, and NoImpact withOversubscription modes against the Master Plan and the what-if plan		
16.	EOC	Click on the BAPs toggle button in the General Scheduler window	BAPs defined in EOC3.3 are displayed in the Activities section of the window for each resource	
17.	EOC	Select the Master Plan from the Open Plans List in the General Scheduler window	BAPs will be scheduled against the Master Pla	1
18.	EOC	Click on the Impact toggle button	Activities will be scheduled in impact mode	

Step	Station	Action	Expected Results Comments EOC 3.4
19.	EOC	Schedule the followingBAPs:	All activities are displayed on the Timeline for
		-	the appropriate resource and time
		EOC3_ASTER_BAP_1_FR	6/24/99 00:59:55-01:01:05
		Start Time: 1999/175 01:00:00	
		Stop Time: 1999/175 01:01:00	
		EOC3_CERESF_BAP_1_FR	6/24/99 01:55:00-02:20:00
		Start Time: 1999/175 02:00:00	Standby 6/24/99 02:00:30- 1/19/2058 03:14:06
		Stop Time: 1999/175 02:15:00	
		EOC3_MODIS_BAP_1_FR	6/24/99 04:55:00-06:49:21
		Start Time: 1999/175 05:00:00	Science Day 6/24/99 04:55:00- 1/19/2058
		Stop Event: Orbit 151, Sequence 1,	03:14:06
		Sunset +00:01:00	
		EOC3_MOPITT_BAP_1_FR	6/24/99 02:14:30-07:16:10
		Start Time: 1999/175 02:15:00	
		Duration: 5 hours	
20.	EOC	Change the resource to schedule against to	All BAPS are displayed on the Timeline for the
		RESOURCE, select the desired BAP, enter the	appropriate resource and time
		times, and click the Schedule button	
21.	EOC	Click on the NoImpact toggle button	BAPs will be scheduled in non-impact mode
22.	EOC	Schedule the following BAPS:	
		EOC3_CERESF_BAP_2_FR	EOC3_CERESF_BAP_2_FRis not displayed
		Start Time: 1999/175 02:00:00	on the Timeline due to the conflict with
		Stop Time: 1999/175 02:10:00	EOC3_CERES_BAP_1_FR, all other activities
		EOC3_MISR_BAP_1_FR	are scheduled
		Start Time: 1999/175 20:00:00	6/24/99 19:58:00-20:12:00
		Stop Time: 1999/175 20:10:00	
		EOC3_PMS_BAP_1_FR	C/24/00 21 00 00 22 20 00
		Start Time: 1999/175 21:00:00	6/24/99 21:00:00-23:30:00
		Stop Time: 1999/175 23:30:00	
23.	EOC	Click on the Oversubscribe toggle button.	BAPs will be scheduled in non-impact with
			oversubscription mode

Step	Station	Action	Expected Results	Comments EOC3.4
24.	EOC	Schedule the followingBAPs:	All BAPs are displayed on the Timeline for the	
		EOC3_tbd_BAP_1_FR	appropriate resource and time	
		EOC3_tbd_BAP_1_FR		
		EOC3_tbd_BAP_1_FR		
25.	~	Schedule commands in ImpactNoImpact, and		
		NoImpact withOversubscription modes		
		against the Master Plan and the what-if plan		
26.	EOC	Click on the File menu item in the Timeline an	dOpen Plan window is displayed	
		select Open		
27.	EOC	Select the Master Plan, select Start and Stop	Timeline for the 1999/175 time range is	
		times of 1999/175 00:00:00 - 1999/176	displayed	
		00:00:00, and click OK		
28.	EOC	Click on the Cmds toggle button in the General		
		Scheduler window	displayed in the Commands section of the	
			window	
29.	EOC	Select the Master Plan from the Open Plans	Commands will be scheduled against the	
		List in the General Scheduler window	Master Plan	
30.	EOC	Click on the ATC Command toggle button	ATC Commands are displayed in the	
			Commands section of the window	
31.	EOC	Click on the Impact toggle button	Commands will be scheduled in impact mode	
32.	EOC	Select the AM1 ASTER resource	ASTER commands are displayed in the	
			Commands section of the window	
33.	EOC	Select the AST_TURN_ON_C_VDP1	The command is displayed on the Timeline for	
		command, enter a Start Time 1999/175	the ASTER resource	
		15:00:00 and a Stop Time of 1999/175		
		15:01:00, and click the Schedule button		
34.	EOC	Click on the No Impact toggle button	Commands will be scheduled in non-impact	
			mode	
35.	EOC	Select the AST_TURN_OFF_C_VDP1	The command <i>is not displayed</i> on the Timeline	
		command, enter a Start Time 1999/175	for the ASTER resource	
		15:00:30 and a Stop Time of 1999/175		
		15:01:30, and click the Schedule button		

Step	Station	Action	Expected Results	Comments EOC3.4
36.	EOC	Click on the Oversubscribe toggle button	Commands will be scheduled in non-impact with oversubscription mode	
37.	EOC	Select the AST_TURN_OFF_C_VDP1 command, enter a Start Time 1999/175 15:00:30 and a Stop Time of 1999/175 15:01:30, and click the Schedule button	The commandis displayed on the Timeline for the ASTER resource	
38.	~	Schedule Procs in Impact, No Impact, and No Impact with Oversubscription modes against the Master Plan and the what-if plan		
39.	EOC	Click on the Procs toggle button	Procs are displayed in the Procedures section of the window	
40.	EOC	Click on the Impact toggle button	Procs will be scheduled in impact mode	
41.	EOC	Select the AM1ASTER resource	ASTER Procs are displayed in the Commands section of the window	
42.	EOC	Select the EOC34_PROC_1proc, enter a Start Time 1999/17515:00:00 and a Stop Time of 1999/17515:01:00, and click the Schedule button	The proc is displayed on the Timeline for the ASTER resource	
43.	EOC	Click on the NoImpact toggle button	Commands will be scheduled in non-impact mode	
44.	EOC	Select the EOC34_PROC_2proc, enter a Start Time 1999/17515:00:30 and a Stop Time of 1999/17515:01:30, and click the Schedule button	The proc is not displayed on the Timeline for the ASTER resource	
45.	EOC	Click on the Oversubscribe toggle button	Commands will be scheduled in non-impact with oversubscription mode	
46.	EOC	Select the EOC34_PROC_3proc, enter a Start Time 1999/17515:00:30 and a Stop Time of 1999/17515:01:30, and click the Schedule button	The proc <i>is displayed</i> on the Timeline for the ASTER resource	

EOC3.5 ASTER Scheduling

Schedule Mode

Receive ASTER Short Term Schedule (STS)

Schedule STS on Master Plan (ASTER Filter- OTM8.9.1)

Verify Preliminary Resource Schedule (PRS) sent to ASTER ICOS

Receive ASTER STS (w/overlapping times)

Schedule STS on Master Plan

Verify PRS sent to ASTER ICOS (AGS?otm8.9.1)

Analysis Mode

Receive ASTER Analysis Mode STS

Schedule STS on What-If Plan

Verify PRS sent to ASTER ICOS

Schedule Mode

Receive ASTER Schedule ModeODS

Schedule ODS on Master Plan

Verify ACS sent to ASTER ICOS

Schedule Mode

Receive ASTER Schedule ModeODS (w/ times overlapping previousODS)

Schedule ODS on Master Plan

Verify ACS sent to ASTER ICOS

Analysis Mode

Receive ASTER Schedule ModeODS

Schedule ODS on What-If plan

Verify ACS sent to ASTER ICOS

Late Change

Receive ASTER Schedule ModeODS

Schedule ODS on What-If Plan

Unlock Timeline

Run local script

Verify ODS scheduled on Master Timeline

Verify ACS sent to ASTER ICOS

Step	Station	Action	Expected Results	Comments
			1	

Step	Station	Action	Expected Results	Comments
1.	EOC	Verify an ASTER STS with a schedule mode of "SCHEDULE" is transmitted from the ASTER ICOS to the ECS IST	The ASTER_STS_1999175001.txt file resides in the fosb/test/am1/data/PAS directory and is of the format described in the ECS/ASTER GDS ICD	
2.	EOC	Start the ASTER filterpoller Tools PAS ASTER filter OK	ASTER filterpoller executes in background polling a predetermined directory and automatically scheduling STS an DDSs on the Master Plan. Late changes are scheduled on the What-If plan. Work Around: From the terminal window where the User Station was brought up, use vi to edit the ast_load script: test (or cd fosb/test/am1/setup/script)s vi ast_load change -inFile to desired filename :wq From the terminal window where the User Station was brought up, run the script to schedule the activities:	
3.	EOC	Verify the activities in the STS are scheduled on the Master Plan: EOC3_ASTER_ACT_1_FR ASTER Stereo	ast_load The activities are displayed on the Timeline for the ASTER resource and the appropriate time 6/24/99 11:59:55-13:00:05 6/24/99 18:15:00-20:15:00	•
4.	EOC/ ECS IST	Verify that a PRS is generated and sent to the ASTER ICOS	The PRS resides in the appropriate directory and is of the format described in the ECS/ASTER GDS ICD (including constraint information)	
5.	EOC	Verify an ASTER STS with a schedule mode of "SCHEDULE" and times that overlap the previous STS is transmitted from the ASTER ICOS to the ECS IST	The ASTER_STS_1999175002.txt file resides in the fosb/test/am1/data/PAS directory and is of the format described in the ECS/ASTER GDS ICD	

Step	Station	Action	Expected Results	Comments
6.	EOC	Start the ASTER filterpoller Tools PAS ASTER filter OK	ASTER filterpoller executes in background polling a predetermined directory and automatically scheduling STS an DDSs on the Master Plan. Late changes are scheduled on the What-If plan. Work Around: From the terminal window where the User Station was brought up, use vi to edit the ast_load script: test (or cd fosb/test/am1/setup/script)	
			vi ast_load change -inFile to desired filename :wq From the terminal window where the User Station was brought up, run the script to schedule the activities: ast_load	
7.	EOC	Verify the activities in the STS are scheduled on the Master Plan: EOC3_ASTER_ACT_1_FR ASTER Stereo	The activities are displayed on the Timeline for the ASTER resource and the appropriate time (overlap previously scheduled activities) 6/24/99 12:29:55-13:30:05 6/24/99 18:00:00-20:00:00	
8.	EOC/ ECS IST	Verify that a PRS is generated and sent to the ASTER ICOS	The PRS resides in the appropriate directory and is of the format described in the ECS/ASTER GDS ICD	
9.	EOC	Verify an ASTER STS with a schedule mode of "ANALYSIS" is transmitted from the ASTER ICOS to the ECS IST	The ASTER_STA_1999175003.txt file resides in the fosb/test/am1/data/PAS directory and is of the format described in the ECS/ASTER GDS ICD	

Step	Station	Action	Expected Results	Comments
10.	EOC	Start the ASTER filterpoller	ASTER filterpoller executes in background	
		Tools	polling a predetermined directory and	
		PAS	automatically scheduling STS an ODSs on the	
		ASTER filter	Master Plan. Late changes are scheduled on	
		ОК	the What-If plan.	
			Work Around: From the terminal window	
			where the User Station was brought up, use vi	
			to edit the ast_load script:	
			test (or cd fosb/test/am1/setup/script);	
			vi ast_load	
			change inFile to desired filename	
			:wq	
			From the terminal window where the User	
			Station was brought up, run the script to	
			schedule the activities:	
			ast_load	
11.	EOC	Verify the activities in the STS are scheduled	The activities are displayed on the	
		on a what-if plan:	WHATIF175003 plan on the Timeline for the	
			ASTER resource and the appropriate time	
		EOC3_ASTER_ACT_1_FR	6/24/99 12:29:55-13:30:05	
		ASTER Stereo	6/24/99 18:00:00-20:00:00	
12.	ı			

Step	Station	Action	Expected Results Comments	
14.	EOC	Start the ASTER filterpoller Tools PAS ASTER filter OK	ASTER filterpoller executes in background polling a predetermined directory and automatically scheduling STS an DDSs on the Master Plan. Late changes are scheduled on the What-If plan. Work Around: From the terminal window where the User Station was brought up, use vi to edit the ast_load script: test (or cd fosb/test/am1/setup/scripts) vi ast_load	
15.	EOC	Verify the activities in the ODS are scheduled on the Master Plan: EOC3_ASTER_ACT_1_FR ASTER Stereo	ast_load The activities are displayed on the Timeline for the ASTER resource and the appropriate time 6/24/99 06:48:16- 09:02:45 6/24/99 09:05:00-09:06:00	
16.	EOC/ ECS IST	Verify that an ACS is generated and sent to the ASTER ICOS	The ACS resides in the appropriate directory and is of the format described in the ECS/ASTER GDS ICD (including constraint information)	
17.	EOC	Verify an ASTERODS with a schedule mode of "SCHEDULE" and times that overlap the previous ODS is transmitted from the ASTER ICOS to the ECS IST	The ASTER_ODS_1999175005.txt file resides in the fosb/test/am1/data/PAS directory and is of the format described in the ECS/ASTER GDS ICD	

Step	Station	Action	Expected Results	Comments
18.	EOC	Start the ASTER filterpoller	ASTER filterpoller executes in background	
		Tools	polling a predetermined directory and	
		PAS	automatically scheduling STS an ODSs on the	
		ASTER filter	Master Plan. Late changes are scheduled on	
		OK	the What-If plan.	
			-	
			Work Around: From the terminal window	
			where the User Station was brought up, use vi	
			to edit the ast_load script:	
			test (or cd fosb/test/am1/setup/script)	
			vi ast_load	
			change inFile to desired filename	
			:wq	
			From the terminal window where the User	
			Station was brought up, run the script to	
			schedule the activities:	
			ast_load	
19.	EOC	Verify the activities in the ODS are scheduled	The activities are displayed on the Timeline for	r
		on the Master Plan:	the ASTER resource and the appropriate time	
			Note that the ASTER Stereo activity will	
			overlap the previously scheduled ASTER	
			Stereo activity from Step 67.	
			Note that the EOC3_ASTER_ACT_1_FR	
			activity in this step will be scheduled in impact	
			mode, that is the previously scheduled	
			EOC3_ASTER_ACT_1_FR activity from Step	
			67 will be removed from the schedule.	
			6/24/99 05:48:16-08:02:45	
		EOC3_ASTER_ACT_1_FR	6/24/99 09:04:30-09:05:30	
		ASTER Stereo		
20.	EOC/	Verify that an ACS is generated and sent to the	11 1	
	ECS	ASTER ICOS	and is of the format described in the	
	IST		ECS/ASTER GDS ICD	

Step	Station	Action	Expected Results	Comments
21.	EOC	Verify an ASTERODS with a schedule mode	The ASTER_ODA_1999175006.txt file reside	3
		of "ANALYSIS" is transmitted from the	in the fosb/test/am1/data/PAS directory and is	
		ASTER ICOS to the ECS IST	of the format described in the ECS/ASTER	
			GDS ICD	
22.	EOC	Start the ASTER filterpoller	ASTER filterpoller executes in background	
		Tools	polling a predetermined directory and	
		PAS ASTER filter	automatically scheduling STS an DDSs on the Master Plan. Late changes are scheduled on	
		OK	the What-If plan.	
		OK	the what-ii plan.	
			Work Around: From the terminal window	
			where the User Station was brought up, use vi	
			to edit the ast_load script:	
			test (or cd fosb/test/am1/setup/script)	
			vi ast_load	
			change inFile to desired filename	
			:wq	
			From the terminal window where the User	
			Station was brought up, run the script to	
			schedule the activities: ast_load	
23.	EOC	Verify the activities in the ODS are scheduled	The activities are displayed on the	
23.	LOC	on a what-if plan	WHATIF175006 plan on the Timeline for the	
		on a what it plan	ASTER resource and the appropriate time	
		ASTER Stereo	6/24/99 22:00:00-22:05:00	
		EOC3_ASTER_ACT_1_FR	6/24/99 22:59:55-23:05:05	
24.	EOC/	Verify that an ACS is generated and sent to the	The ACS resides in the appropriate directory	
	ECS	ASTER ICOS	and is of the format described in the	
	IST		ECS/ASTER GDS ICD	
25.	EOC/	Verify that an ASTER Request for EOC	The Request for EOC Schedules resides in the	
	ECS	Schedules is transmitted from the ASTER	appropriate directory and is of the format	
	IST	ICOS to the ECS IST	described in the ECS/ASTER GDS ICD	

Step	Station	Action	Expected Results	Comments
26.	EOC/	Verify that an Activity Schedule is generated	The Activity Schedule resides in the	
	ECS	and sent to the ASTER ICOS	appropriate directory and is of the format	
	IST		described in the ECS/ASTER GDS ICD	
27.	~	ASTER late change scheduled on What-If plan		
28.	EOC	Verify an ASTERODS with a schedule mode	The ASTER requests scheduling for a time for	
		of "SCHEDULE" is transmitted from the	which a command load has already been	
		ASTER ICOS to the ECS IST	generated. The	
			ASTER_ODA_1999175006.txt file resides in	
			the fosb/test/am1/data/PAS directory and is of	
			the format described in the ECS/ASTER GDS	
			ICD	
29.	EOC	Start the ASTER filterpoller	ASTER filterpoller executes in background	
		Tools	polling a predetermined directory and	
		PAS	automatically scheduling STS an ODSs on the	
		ASTER filter	Master Plan. Late changes are scheduled on	
		OK	the What-If plan.	
			Work Around: From the terminal window	
			where the User Station was brought up, use vi	
			to edit the ast_load script:	
			test (or cd fosb/test/am1/setup/script);	
			vi ast_load	
			change inFile to desired filename	
			:wq	
			From the terminal window where the User	
			Station was brought up, run the script to	
			schedule the activities:	
20	EOC	Warifu the activities in the ODC are saled 1.1.1.1	ast_load The estimates are displayed on the	
30.	EOC	Verify the activities in the ODS are scheduled	The activities are displayed on the	
		on a what-if plan	WHATIF175006 plan on the Timeline for the	
		ACTED Characa	ASTER resource and the appropriate time	
		ASTER Stereo	6/24/99 22:00:00-22:05:00	
		EOC3_ASTER_ACT_1_FR	6/24/99 22:59:55-23:05:05	

Step	Station	Action	Expected Results	Comments
31.	EOC	Unlock the portion of the timeline		OTM 8.9.5
		corresponding to the ASTER late change		
		request.		
32.	EOC	Run the local script to process the ODS file	The activities are displayed on the Timeline for	•
		and schedule on the Master Timeline.	the ASTER resource and the appropriate time	
33.	EOC/	Verify that an ACS is generated and sent to the	The ACS resides in the appropriate directory	
	ECS	ASTER ICOS	and is of the format described in the	
	IST		ECS/ASTER GDS ICD	
34.	EOC/	Verify that an ASTER Request for EOC	The Request for EOC Schedules resides in the	
	ECS	Schedules is transmitted from the ASTER	appropriate directory and is of the format	
	IST	ICOS to the ECS IST	described in the ECS/ASTER GDS ICD	
35.	EOC/	Verify that an Activity Schedule is generated	The Activity Schedule resides in the	
	ECS	and sent to the ASTER ICOS	appropriate directory and is of the format	
	IST		described in the ECS/ASTER GDS ICD	

EOC3.6 What-If Scheduling

Open What-if plan

Schedule Activities -

Impact mode

Non-Impact

One activity not scheduled due to conflict w/ another activity

Oversubscription

Two activities scheduled overlapping existing activities

Schedule BAPs

Impact

Non-Impact

One BAP not scheduled due to conflict w/ another activity

Oversubscription

Two BAP s scheduled overlapping existing activities

Schedule Commands

Impact

Non-Impact

One command not scheduled due to conflict w/ another activity

Oversubscription

Two commands scheduled overlapping existing activities

Schedule Procs

Impact

Non-Impact

One proc not scheduled due to conflict w/ another activity

Oversubscription

Two procs scheduled overlapping existing activities

Transfer from What-if plan to Master Plan

Activity

BAP

Command

Proc

Step	Station	Action	Expected Results	Comments
1.	EOC	Click on the File menu item in the Timeline an	dOpen Plan window is displayed	OTM 8.5.5
		select New		

Step	Station	Action	Expected Results	Comments
2.	EOC	Enter the what-if plan name: EOC36_What-if,	Timeline for the 1999/175 time range is	
		enter Start and Stop times of 1999/175	displayed	
		00:00:00 - 1999/176 00:00:00, and click OK		
3.	EOC	Click on the Acts toggle button in the General	Activities defined in EOC3.1 are displayed in	
		Scheduler window	the Activities section of the window	
4.	EOC	Select the EOC36_What-if plan from the Open	Activities will be scheduled against the what-if	
		Plans List in the General Scheduler window	plan	
5.	EOC	Click on the Impact toggle button	Activities will be scheduled in impact mode	

Step	Station	Action	Expected Results Commen	
6.	EOC	Schedule the following activities:	All activities are displayed on the Timeline for Per OTM 8.6.	.1
		EOC3_ASTER_ACT_1_FR	the appropriate resource and time	
		Start Time: 1999/175 01:00:00	6/24/99 00:59:55-01:01:05	
		Stop Time: 1999/175 01:01:00		
		EOC3_CERESF_ACT_1_FR		
		Start Time: 1999/175 02:00:00	6/24/99 01:55:00-02:20:00	
		Stop Time: 1999/175 02:15:00	Standby 6/24/99 02:00:30- 1/19/2058 03:14:06	
		EOC3_MODIS_ACT_1_FR		
		Start Time: 1999/175 05:00:00	6/24/99 04:55:00-06:49:21	
		Stop Event: Orbit 151, Sequence 1,	Science Day 6/24/99 04:55:00- 1/19/2058	
		Sunset +00:01:00	03:14:06	
		EOC3_MOPITT_ACT_1_FR		
		Start Time: 1999/175 02:15:00	6/24/99 02:14:30-07:16:10	
		Duration: 5 hours		
		EOC3_CDH_ACT_1_FR		
		Start Event: Orbit 152, Sequence 1,	6/24/99 07:02:35-10:00:05	
		Sunrise -02:00:00		
		Stop Time: 1999/175 10:00:00		
		EOC3_COM_ACT_1_FR		
		Start Event: Orbit 155, Sequence 1,	6/24/99 16:54:19-18:04:19	
		Sunrise +03:00:00		
		Stop Event: Orbit 155, Sequence 1,		
		Sunrise +04:00:00		
		EOC3_EAS_ACT_1_FR		
		Start Event: Orbit 159, Sequence 1,	6/24/99 15:57:26-16:16:26	
		Sunset -04:00:00	0/2 // // 10/10/12/0	
		Duration: 15 minutes		
		EOC3_EPS_ACT_1_FR		
		Start Time: 1999/175 18:00:00	6/24/99 18:00:00-19:00:00	
		Stop Time: 1999/175 19:00:00	0/21/99 10.00.00 19.00.00	
		EOC3_GNC_ACT_1_FR		
		Start Time: 1999/175 23:00:00	6/24/99 23:00:00-23:45:00	
		Stop Time: 1999/17523:45:00	0/2/1/7/ 23.00.00 23.T3.00	
		Stop Time: 1777/17525.15.00	All activities are displayed on the Timeline for	
			the appropriate resource and time	
30/97	,		EOC3-43	

Step	Station	Action	Expected Results	Comments
7.	EOC	Click on theNoImpact toggle button	Activities will be scheduled in non-impact	
			mode	
8.	EOC	Schedule the following activities:		Use Step 7 to
		EOC3_CERESF_ACT_2	EOC3_CERESF_ACT_2_FRis not displayed	schedule the
		Start Time: 1999/175 02:00:00	on the Timeline due to the conflict with	activities
		Stop Time: 1999/175 02:10:00	EOC3_CERESF_ACT_1_FR, all other	
		EOC3_MISR_ACT_1_FR	activities are scheduled	
		Start Time: 1999/175 20:00:00	6/24/99 19:58:00-20:12:00	
		Stop Time: 1999/175 20:10:00		
		EOC3_PMS_ACT_1_FR		
		Start Time: 21:00:00	6/24/99 21:00:00-23:30:00	
		Stop Time: 23:30:00		
		EOC3_TCS_ACT_1_FR		
		Start Time: 22:00:00	6/24/99 22:00:00-23:00:01	
		Stop Time: 23:00:01		
9.	EOC	Click on the NoImpact and Oversubscribe	Activities will be scheduled in non-impact with	l
1.0		toggle buttons	oversubscription mode	
10.	EOC	Schedule the following activities:	All activities are displayed on the Timeline for	-
			the appropriate resource and time, even though	I
			the TCS activity is scheduled twice with	activities
1.1	FOG		overlapping times	
11.	EOC	Click on the File menu item in the Timeline an	dOpen Plan window is displayed	
10	FOG	select Open	Ti. 1: 6 d 1000/175	
12.	EOC	Select the what-if plan, select Start and Stop	Timeline for the 1999/175 time range is	
		times of 1999/175 00:00:00 - 1999/176	displayed	
12	EOC	00:00:00, and click OK	DADs defined in EOC2 2 and displayed in the	
13.	EUC	Click on the BAPs toggle button in the General Scheduler window	BAPs defined in EOC3.3 are displayed in the Activities section of the window for each	
		Scheduler window	resource	
14.	EOC	Select the Master Plan from the Open Plans	BAPs will be scheduled against the Master Pla	2
14.	LUC	List in the General Scheduler window	DAI 5 WIII DE SCHEUUIEU against the Master Fla	1
15.	EOC	Click on the Impact toggle button	Activities will be scheduled in impact mode	
13.	LUC	Chek on the impact toggle button	Activities will be scheduled in impact mode	

Step	Station	Action	Expected Results Comments
16.	EOC	Schedule the followingBAPs:	All activities are displayed on the Timeline for
		-	the appropriate resource and time
		EOC3_ASTER_BAP_1_FR	6/24/99 00:59:55-01:01:05
		Start Time: 1999/175 01:00:00	
		Stop Time: 1999/175 01:01:00	
		EOC3_CERESF_BAP_1_FR	6/24/99 01:55:00-02:20:00
		Start Time: 1999/175 02:00:00	Standby 6/24/99 02:00:30- 1/19/2058 03:14:06
		Stop Time: 1999/175 02:15:00	
		EOC3_MODIS_BAP_1_FR	6/24/99 04:55:00-06:49:21
		Start Time: 1999/175 05:00:00	Science Day 6/24/99 04:55:00- 1/19/2058
		Stop Event: Orbit 151, Sequence 1,	03:14:06
		Sunset +00:01:00	
		EOC3_MOPITT_BAP_1_FR	6/24/99 02:14:30-07:16:10
		Start Time: 1999/175 02:15:00	
		Duration: 5 hours	
17.	EOC	Change the resource to schedule against to	All BAPS are displayed on the Timeline for the
		RESOURCE, select the desired BAP, enter the	appropriate resource and time
		times, and click the Schedule button	
18.	EOC	Click on the NoImpact toggle button	BAPs will be scheduled in non-impact mode
19.	EOC	Schedule the following BAPS:	
		EOC3_CERESF_BAP_2_FR	EOC3_CERESF_BAP_2_FRis not displayed
		Start Time: 1999/175 02:00:00	on the Timeline due to the conflict with
		Stop Time: 1999/175 02:10:00	EOC3_CERES_BAP_1_FR, all other activities
		EOC3_MISR_BAP_1_FR	are scheduled
		Start Time: 1999/175 20:00:00	6/24/99 19:58:00-20:12:00
		Stop Time: 1999/175 20:10:00	
		EOC3_PMS_BAP_1_FR	C/24/20 21 00 00 22 20 00
		Start Time: 1999/175 21:00:00	6/24/99 21:00:00-23:30:00
		Stop Time: 1999/175 23:30:00	
20.	EOC	Click on the Oversubscribe toggle button.	BAPs will be scheduled in non-impact with
			oversubscription mode

Step	Station	Action	Expected Results	Comments
21.	EOC	Schedule the followingBAPs: EOC3_tbd_BAP_1_FR	All BAPs are displayed on the Timeline for the appropriate resource and time	
		EOC3_tbd_BAP_1_FR	Tr Tr	
22.	EOC	EOC3_tbd_BAP_1_FR Click on theCmds toggle button in the General	Commands related to the selected resource are	
22.	LOC	Scheduler window	displayed in the Commands section of the window	
23.	EOC	Select the what-if plan from the Open Plans	Commands will be scheduled against the what-	
		List in the General Scheduler window	if plan	
24.	EOC	Click on the ECL Command toggle button	ECL Commands are displayed in the Commands section of the window	
25.	EOC	Click on the Impact toggle button	Commands will be scheduled in impact mode	
26.	EOC	Select the AM1 ASTER resource	ASTER commands are displayed in the Commands section of the window	
27.	EOC	Select the AST_TURN_ON_C_VDP1 command, enter a Start Time 1999/175 15:00:00 and a Stop Time of 1999/175 15:01:00, and click the Schedule button	The command is displayed on the Timeline for the ASTER resource	
28.	EOC	Click on the NoImpact toggle button	Commands will be scheduled in non-impact mode	
29.	EOC	Select the AST_TURN_OFF_C_VDP1 command, enter a Start Time 1999/175 15:00:30 and a Stop Time of 1999/175 15:01:30, and click the Schedule button	The commandis not displayed on the Timeline for the ASTER resource	
30.	EOC	Click on the No Impact and Oversubscribe toggle buttons	Commands will be scheduled in non-impact with oversubscription mode	
31.	EOC	Select the AST_TURN_OFF_C_VDP1 command, enter a Start Time 1999/175 15:00:30 and a Stop Time of 1999/175 15:01:30, and click the Schedule button	The commandis displayed on the Timeline for the ASTER resource	
32.	~	Schedule Procs in Impact, No Impact, and No Impact with Oversubscription modes against the Master Plan and the what-if plan		

Step	Station	Action	Expected Results	Comments
33.	EOC	Click on the Procs toggle button	Procs are displayed in the Procedures section of the window	
34.	EOC	Click on the Impact toggle button	Procs will be scheduled in impact mode	
35.	EOC	Select the AM1ASTER resource	ASTER Procs are displayed in the Commands section of the window	
36.	EOC	Select the EOC34_PROC_1proc, enter a Start Time 1999/17515:00:00 and a Stop Time of 1999/17515:01:00, and click the Schedule button	The proc is displayed on the Timeline for the ASTER resource	
37.	EOC	Click on the NoImpact toggle button	Commands will be scheduled in non-impact mode	
38.	EOC	Select the EOC34_PROC_2proc, enter a Start Time 1999/17515:00:30 and a Stop Time of 1999/17515:01:30, and click the Schedule button	The proc <i>is not displayed</i> on the Timeline for the ASTER resource	
39.	EOC	Click on the Oversubscribe toggle button	Commands will be scheduled in non-impact with oversubscription mode	
40.	EOC	Select the EOC34_PROC_3proc, enter a Start Time 1999/17515:00:30 and a Stop Time of 1999/17515:01:30, and click the Schedule button	The proc <i>is displayed</i> on the Timeline for the ASTER resource	
41.	EOC	Open the Master Timeline	Master timeline displayed	
42.	EOC	Copy an activity from the What-If timeline to the Master Timeline.	Activity displayed on the Master Timeline.	
43.	EOC	Copy a BAP from the What-If timeline to the Master Timeline.	BAP displayed on the Master Timeline.	
44.	EOC	Copy a command from the What-If timeline to the Master Timeline.	Command displayed on the Master Timeline.	
45.	EOC	Copy a proc from the What-If timeline to the Master Timeline.	Proc displayed on the Master Timeline.	

EOC3.7 Microprocessor, FSW, Table, and RTS Load Generation and Uplink Scheduling

Ingest Microprocessor load (twice)

validate, generateuplink load

Verify load contents file

Verify load image file

Verify load uplink file

Verify load report file

Verify load catalog in Sybase

Ingest FSW load (twice-2^d time w/errors)

validate, generateuplink load

Verify load contents file

Verify load image file

Verify load uplink file

Verify load report file

Verify load catalog in Sybase

Ingest Table load (twice)

validate, generateuplink load

Verify load contents file

Verify load image file

Verify load uplink file

Verify load report file

Verify load catalog in Sybase

Ingest RTS load (twice)

???Build RTS load ???

validate, generateuplink load

Verify load contents file

Verify load image file

Verify load uplink file

Verify load report file

Verify load catalog in Sybase

Step	Station	Action	Expected Results	Comments
1.	EOC	Click the INGEST button in the Load Manager window	LOAD INGEST window is displayed	
2.	EOC	Type the source directory in the Filter box /fosb/test/am1/loadcontents/* and click the Filter button	The available microprocessor load contents files are displayed	
3.	EOC	Select the AM1_MPR_MIS_BUT_8_ROB.cnt microprocessor load file to ingest and click OK	Microprocessor load filename appears in the Local list section of the Load Manager window	
4.	EOC	Select the AM1_MPR_MIS_BUT_8_ROB.cnt file in the Local list section of the Load Manager window, and click the Validate button on the Load Manager window		
5.	EOC	Select the AM1_MPR_MIS_BUT_8_ROB.cnt file in the Local list section of the Load Manager window, and click the Generate button on the Load Manager window	LOAD GENERATOR window is displayed with the Load name of AM1_MPR_MIS_BUT_8_ROB.cnt and the Load type of MPR and the Destination of MIS	
6.	EOC	Click on the Select Time button	Pair Time Selector window is displayed	
7.	EOC	Enter Stop: 1999/174 <return>03:00:00.000<return> Start: 1999/174<return>02:00:00.000<return></return></return></return></return>	Absolute Stop Time: 1999/174 03:00:00 Absolute Start Time: 1999/174 02:00:00	
8.	EOC	Click OK	Pair Time Selector window is no longer displayed, Start and Stop times are displayed on the LOAD GENERATOR window	
9.	EOC	Enter Start Location: 10 Size: 1000 Click on the End Location box Enter Description: EOC3 FR TEST	Start Location: 10 Size: 1000 End Location: 1009 should appear automatically after clicking on the box Description: EOC3 FR TEST	
10.	EOC	Click OK	Event Display indicates the load generation is complete and the Status Message in the Load Manager window indicates that the load generation is complete	

Step	Station	Action	Expected Results	Comments
11.	EOC	Verify the AM1_MPR_MIS_BUT_8_ROB_01 _OF_01.upl load filename appears in the Catalogue list on the Load Manager window	-	
12.	EOC	Verify the MPR load contents file (AM1_MPR_ MIS_BUT_8_ROB.cnt) is in the /fosb/test/am1/loads directory and is of the correct format	Use offline analysis to check format	
13.	EOC	Verify the MPR load image file (AM1_ MPR_ MIS_BUT_8_ROB_01_OF_01.img) is in the /fosb/test/am1/loads directory and is of the correct format	Use offline analysis to check format	
14.	EOC	Verify the MPR load uplink file (AM1_MPR_MIS_BUT_8_ROB_01_OF_01.upl) is in the /fosb/test/am1/loads directory and is of the correct format	Use offline analysis to check format	
15.	EOC	Verify the MPR load report file (AM1_MPR_MIS_BUT_8_ROB.rpt) is in the /fosb/test/am1/reports directory and is of the correct format	Use offline analysis to check format	
16.	EOC	Copy the files noted in steps 12-15 to another directory for offline analysis: cp <filename> /home/ivvtest4</filename>		
17.	EOC	Verify the load catalog is updated using Sybase: %isql -Ufos_dba -Pfos_dba >use am1_fos_ops >go >select * fromfos_load_cat >go	Verify the microprocessor load information is in the fos_load_cat table, then type >exit to exit Sybase	
18.	EOC	Click the INGEST button in the Load Manager window	LOAD INGEST window is displayed	
19.	EOC	Type the source directory in the Filter box /fosb/test/am1/loadcontents/* and click the Filter button	The available microprocessor load contents files are displayed	

Step	Station	Action	Expected Results	Comments
20.	EOC	Select the AM1_MPR_MIS_CHECK_SUM_SAMPLE_ ROB.cnt microprocessor load file to ingest and click OK	Microprocessor load filename appears in the Local list section of the Load Manager window	7
21.	EOC	Select the AM1_MPR_MIS_CHECK_SUM_SAMPLE_ ROB.cnt file in the Local list section of the Load Manager window, and click the Validate button on the Load Manager window	Event Display indicates that the validation is complete	
22.	EOC	Select the AM1_MPR_MIS_CHECK_SUM_SAMPLE_ ROB.cnt file in the Local list section of the Load Manager window, and click the Generate button on the Load Manager window	LOAD GENERATOR window is displayed with the Load name of AM1_MPR_MIS_CHECK_SUM_SAMPLE_ROB.cnt and the Load type of MPR and the Destination of MIS	
23.	EOC	Click on the Select Time button	Pair Time Selector window is displayed	
24.	EOC	Enter Stop: 1999/174 <return>04:00:00.000<return> Start: 1999/174<return>03:10:00.000<return></return></return></return></return>	± 1	
25.	EOC	Click OK	Pair Time Selector window is no longer displayed, Start and Stop times are displayed on the LOAD GENERATOR window	
26.	EOC	Enter Start Location: 100 Size: 150 Click on the End Location box Enter Description: EOC3 FR TEST	Start Location: 100 Size: 150 End Location: 249 should appear automatically after clicking on the box Description: EOC3 FR TEST	
27.	EOC	Click OK	Event Display indicates the load generation is complete and the Status Message in the Load Manager window indicates that the load generation is complete	

Step	Station	Action	Expected Results	Comments
28.	EOC	Verify the AM1_MPR_MIS_CHECK_SUM_SAMPLE_ ROB_01_OF_01.upl load filename appears in the Catalogue list on the Load Manager	î	
29.	EOC	window Verify the MPR load contents file	Use offline analysis to check format	
		(AM1_MPR_MIS_CHECK_SUM_SAMPLE_ ROB.cnt) is in the /fosb/test/am1/loads directory and is of the correct format		
30.	EOC	Verify the MPR load image file (AM1_MPR_MIS_CHECK_SUM_SAMPLE_ ROB_01_OF_01.img) is in the /fosb/test/am1/loads directory and is of the correct format	Use offline analysis to check format	
31.	EOC	Verify the MPR load uplink file (AM1_MPR_MIS_CHECK_SUM_SAMPLE_ ROB_01_OF_01.upl) is in the /fosb/test/am1/loads directory and is of the correct format	Use offline analysis to check format	
32.	EOC	Verify the MPR load report file (AM1_MPR_MIS_CHECK_SUM_SAMPLE ROB.rpt) is in the /fosb/test/am1/reports directory and is of the correct format	Use offline analysis to check format	
33.	EOC	Copy the files noted in steps 29-32 to another directory for offline analysis: cp <filename> /home/ivvtest4</filename>		
34.	EOC	Verify the load catalog is updated using Sybase: %isql -Ufos_dba -Pfos_dba >use am1_fos_ops >go >select * fromfos_load_cat	Verify the microprocessor load information is in the fos_load_cat table, then type >exit to exit Sybase	
		>go		

Step	Station	Action	Expected Results	Comments
35.	EOC/ SDVF	Ingest and validate a flight software load contents file, and generate the flight software uplink load, the load report, and the load image file		
36.	EOC	Bring up the Table Load Builder window: click on the Tools button on the Control window, select Table Load Builder	Table Load Builder window is displayed	
37.	EOC	Select New from the File menu item in the Table Load Builder window	Table Template Selection window is displayed	
38.	EOC	Enter the spacecraft AM1 and the subsystem ASTER, select the template ESA_OFFSET_TBL, and click OK	Table Template Selection window is no longer displayed and the Table Load Builder window contains the table template (8 fields of default values)	
39.	EOC	Click on the Select Time button	Pair Time Selector window is displayed	
40.	EOC	Enter Stop: 1999/174 <return>01:00:00.000<return> Start: 1999/174<return>00:00:00.000<return></return></return></return></return>	1	
41.	EOC	Click OK	Pair Time Selector window is no longer displayed, Start and Stop times are displayed in the Uplink Time Period portion of the Table Load Builder window	ı
42.	EOC	Modify the default parameters with the following values: Field 1: 0.000000 Field 6: 4098 Field 8: 127.000000		
43.	EOC	Select Validate from the File menu item in the Table Load Builder window	Bottom portion of the Table Load Builder window indicates a status of Validation Complete	

Step	Station	Action	Expected Results	Comments
44.	EOC	Select Generate from the File menu item in the Table Load Builder window	Bottom portion of the Table Load Builder window indicates a status of Validation	
			Complete, Table load generation complete, and	
			Generate Load Successful; Event Display	
			indicates load generation started and completed	[
45.	EOC	Verify the table load contents file	Use offline analysis to check format	Verify FSW Table
		(AM1_TBL_ESA_OFFSET_TBL.cnt) is in the		Load File Format in
		/fosb/test/am1/loads directory and is of the		ICD Between ECS
		correct format		and SDVF section5
				(505-41-37)
46.	EOC	Varify the table load image file	Use offline analysis to shook format	5.1.1.2 5.1.1.1
40.	EUC	Verify the table load image file (AM1_TBL_ESA_OFFSET_TBL_01_OF_01.	Use offline analysis to check format	3.1.1.1
		img) is in the /fosb/test/am1/loads directory		
		and is of the correct format		
47.	EOC	Verify the table load uplink file	Use offline analysis to check format	
		(AM1_TBL_ESA_OFFSET_TBL_01_OF_01.	•	
		upl) is in the /fosb/test/am1/loads directory and		
		is of the correct format		
48.	EOC	Verify the table load report file	Use offline analysis to check format	
		(AM1_TBL_ESA_OFFSET_TBL.rpt) is in the		
		/fosb/test/am1/reports directory and is of the		
49.	EOC	correct format Copy the files noted in steps 45-48 to another		
49.	EUC	directory foroffline analysis:		
		cp <filename> /home/ivvtest4</filename>		
50.	EOC	Verify the load catalog is updated using	Verify the table load information is in the	
		Sybase:	fos_load_cat table, then type	
		%isql -Ufos_dba -Pfos_dba	>exit	
		>use am1_fos_ops	to exit Sybase	
		>go		
		>select * fromfos_load_cat		
		>g0		

Step	Station	Action	Expected Results	Comments
51.	EOC	Select New from the File menu item in the Table Load Builder window	Table Template Selection window is displayed	
52.	EOC	Enter the spacecraft AM1 and the subsystem ASTER, select the template ESA_OFFSET_TBL, and click OK	Table Template Selection window is no longer displayed and the Table Load Builder window contains the table template (8 fields of default values)	
53.	EOC	Enter the Table Name of ESA_OFFSET_TBL_INVALID		
54.	EOC	Click on the Select Time button	Pair Time Selector window is displayed	
55.	EOC	Enter Stop: 1999/174 <return>03:00:00.000<return> Start: 1999/174<return>02:00:00.000<return></return></return></return></return>	Absolute Stop Time: 1999/174 03:00:00 Absolute Start Time: 1999/174 02:00:00	
56.	EOC	Click OK	Pair Time Selector window is no longer displayed, Start and Stop times are displayed in the Uplink Time Period portion of the Table Load Builder window	
57.	EOC	Modify the default parameters with the following values: Field 2: 2.000000 Field 6: 4098 Field 7: 10		
58.	EOC	Select Validate from the File menu item in the Table Load Builder window	Bottom portion of the Table Load Builder window indicates a status of 2 ESA1 H course bias offset: ERROR: Invalid Data Entry 7 ESA1 H course bias offset: ERROR: Invalid Data Entry	
59.	EOC	Select Generate from the File menu item in the Table Load Builder window	Bottom portion of the Table Load Builder window indicates a status of ERROR: Unable to Generate Load. Invalid Data.	
60.	EOC	Modify the default parameters with the following values: Field 7: -2		

Step	Station	Action	Expected Results	Comments
61.	EOC	Select Validate from the File menu item in the Table Load Builder window	Bottom portion of the Table Load Builder window indicates a status of 2 ESA1 H course bias offset: ERROR: Invalid Data Entry	
62.	EOC	Modify the default parameters with the following values: Field 2: 0.000000		
63.	EOC	Select Validate from the File menu item in the Table Load Builder window	Bottom portion of the Table Load Builder window indicates a status of Validation Complete	
64.	EOC	Select Generate from the File menu item in the Table Load Builder window	Bottom portion of the Table Load Builder window indicates a status of Validation Complete, Table load generation complete, and Generate Load Successful; Event Display indicates load generation started and complete	
65.	EOC	Verify the table load contents file (AM1_TBL_ESA_OFFSET_TBL_INVALID. cnt) is in the /fosb/test/am1/loads directory and is of the correct format	Use offline analysis to check format	Verify FSW Table Load File Format in ICD Between ECS and SDVF section5 (505-41-37) 5.1.1.2
66.	EOC	Verify the table load image file (AM1_TBL_ESA_OFFSET_TBL_INVALID_01_OF_01.img) is in the /fosb/test/am1/loads directory and is of the correct format	Use offline analysis to check format	5.1.1.1
67.	EOC	Verify the table load uplink file (AM1_TBL_ESA_OFFSET_TBL_INVALID_ 01_OF_01.upl) is in the /fosb/test/am1/loads directory and is of the correct format	Use offline analysis to check format	
68.	EOC	Verify the table load report file (AM1_TBL_ESA_OFFSET_TBL_INVALID.r pt) is in the /fosb/test/am1/reports directory and is of the correct format	Use offline analysis to check format	

Step	Station	Action	Expected Results	Comments
69.	EOC	Copy the files noted in steps 65-68 to another directory for offline analysis: cp <filename> /home/ivvtest4</filename>	-	
70.	EOC	Verify the load catalog is updated using Sybase: %isql -Ufos_dba -Pfos_dba >use am1_fos_ops >go >select * fromfos_load_cat >go	Verify the table load information is in the fos_load_cat table, then type >exit to exit Sybase	
71.	EOC	Select New from the File menu item in the Table Load Builder window	Table Template Selection window is displayed	
72.	EOC	Enter the spacecraft AM1 and the subsystem ASTER, select the template ESA_PARAMS_TBL, and click OK	Table Template Selection window is no longer displayed and the Table Load Builder window contains the table template (9 fields of default values)	
73.	EOC	Click on the Select Time button	Pair Time Selector window is displayed	
74.	EOC	Enter Stop: 1999/174 <return>05:00:00.000<return> Start: 1999/174<return>04:00:00.000<return></return></return></return></return>	Absolute Stop Time: 1999/174 05:00:00 Absolute Start Time: 1999/174 04:00:00	
75.	EOC	Click OK	Pair Time Selector window is no longer displayed, Start and Stop times are displayed in the Uplink Time Period portion of the Table Load Builder window	ı
76.	EOC	Modify the default parameters with the following values: Field 2: 62 Field 4: 8 Field 5: 75		
77.	EOC	Select Generate from the File menu item in the Table Load Builder window	Bottom portion of the Table Load Builder window indicates a status of Validation Complete, Table load generation complete, and Generate Load Successful; Event Display indicates load generation started and completed	

Step	Station	Action	Expected Results	Comments
78.	EOC	Verify the table load contents file (AM1_TBL_ESA_PARAMS_TBL.cnt) is in the /fosb/test/am1/loads directory and is of the correct format	Use offline analysis to check format	
79.	EOC	Verify the table load image file (AM1_TBL_ESA_PARAMS_TBL_01_OF_01). img) is in the /fosb/test/am1/loads directory and is of the correct format	Use offline analysis to check format	
80.	EOC	Verify the table load uplink file (AM1_TBL_ESA_PARAMS_TBL_01_OF_01.upl) is in the /fosb/test/am1/loads directory and is of the correct format	Use offline analysis to check format	
81.	EOC	Verify the table load report file (AM1_TBL_ESA_PARAMS_TBL.rpt) is in the /fosb/test/am1/reports directory and is of the correct format	Use offline analysis to check format	
82.	EOC	Copy the files noted in steps 78-81 to another directory for offline analysis: cp <filename> /home/ivvtest4</filename>		
83.	EOC	Verify the load catalog is updated using Sybase: %isql -Ufos_dba -Pfos_dba >use am1_fos_ops >go >select * fromfos_load_cat >go	Verify the table load information is in the fos_load_cat table, then type >exit to exit Sybase	
84.	EOC	Bring down the Table Load Builder window: click on the File menu item and select Quit	Table Load Builder window is no longer displayed	
85.	EOC	Verify the AM1_RTS_025_test1 file is located in the /home/ivvtest4/robstuff/formalrun/RTSfiles directory: cd /home/ivvtest4/rob/formalrun/RTSfiles more AM1_RTS_025_test1		

Step	Station	Action	Expected Results	Comments
86.	EOC	From the terminal window where the User Station was brought up, run theCreateRTS script: a. setenv FUILOADDIR /fosb/test/am1/loadcontents b. source /fosb/test/am1/scripts/setup FosEnvVars c. setenv SCRIPTUserStation d. cd /fosb/test/am1/bin/sun_sparc_5-4 e. CreateRTS /home/ivvtest4/rob/formalrun/RTSfiles AM1_RTS_025_test1 025	 a. nothing b. nothing c. nothing d. nothing e. Terminal window indicates a status of request generated, Event Display indicates a status of RTS load generation started and completed 	
87.	EOC	Verify the RTS load contents file (AM1_RTS_025_test1.cnt) is in the /fosb/test/am1/loads directory and is of the correct format	Use offline analysis to check format	
88.	EOC	Verify the RTS load image file (AM1_RTS_025_test1.img) is in the /fosb/test/am1/loads directory and is of the correct format	Use offline analysis to check format	
89.	EOC	Verify the RTS load uplink file (AM1_RTS_025_test1.upl) is in the /fosb/test/am1/loads directory and is of the correct format	Use offline analysis to check format	
90.	EOC	Verify the RTS load report file (AM1_RTS_025_test1.rpt) is in the /fosb/test/am1/reports directory and is of the correct format	Use offline analysis to check format	
91.	EOC	Copy the files noted in steps 87-90 to another directory for offline analysis: cp <filename> /home/ivvtest4</filename>		

Step	Station	Action	Expected Results	Comments
92.	EOC	Verify the load catalog is updated using Sybase: %isql -Ufos_dba -Pfos_dba >use am1_fos_ops >go >select * fromfos_load_cat >go	Verify the table load information is in the fos_load_cat table, then type >exit to exit Sybase	
93.	EOC	Verify the AM1_RTS_025_test2 file is located in the /home/ivvtest4/robstuff/formalrun/RTSfiles directory: cd /home/ivvtest4/rob/formalrun/RTSfiles more AM1_RTS_025_test2	The AM1_RTS_025_test2 file contains exactly 16 commands	,
94.	EOC	From the terminal window where the User Station was brought up, run the CreateRTS script: a. setenv FUILOADDIR /fosb/test/am1/loadcontents b. source /fosb/test/am1/scripts/setup FosEnvVars c. setenv SCRIPTUserStation d. cd /fosb/test/am1/bin/sun_sparc_5-4 e. CreateRTS /home/ivvtest4/rob/formalrun/RTSfiles AM1_RTS_025_test2 025	 a. nothing b. nothing c. nothing d. nothing e. Terminal window indicates a status of request generated, Event Display indicates a status of request completed 	
95.	EOC	Verify the RTS load contents file (AM1_RTS_025_test2.cnt) is in the /fosb/test/am1/loads directory and is of the correct format	Use offline analysis to check format	
96.	EOC	Verify the RTS load image file (AM1_RTS_025_test2.img) is in the /fosb/test/am1/loads directory and is of the correct format	Use offline analysis to check format	

Step	Station	Action	Expected Results	Comments
97.	EOC	Verify the RTS load uplink file (AM1_RTS_025_test2.upl) is in the /fosb/test/am1/loads directory and is of the correct format	Use offline analysis to check format	
98.	EOC	Verify the RTS load report file (AM1_RTS_025_test2.rpt) is in the /fosb/test/am1/reports directory and is of the correct format	Use offline analysis to check format	
99.	EOC	Copy the files noted in steps 95-98 to another directory for offline analysis: cp <filename> /home/ivvtest4</filename>		
100.	EOC	Verify the load catalog is updated using Sybase: %isql -Ufos_dba -Pfos_dba >use am1_fos_ops >go >select * fromfos_load_cat >go	Verify the table load information is in the fos_load_cat table, then type >exit to exit Sybase	
101.	EOC	Verify the AM1_RTS_025_test3 file is located in the /home/ivvtest4/robstuff/formalrun/RTSfiles directory: cd /home/ivvtest4/rob/formalrun/RTSfiles more AM1_RTS_025_test3	The AM1_RTS_025_test3 file contains more than 16 commands	

Step	Station	Action		Expected Results	Comments
102.	EOC	From the terminal window where the User	a.	nothing	
		Station was brought up, run the CreateRTS	b.	nothing	
		script:	c.	nothing	
		a. setenv FUILOADDIR	d.	nothing	
		/fosb/test/am1/loadcontents	e.	Terminal window indicates a status of no	
		b. source/fosb/test/am1/scripts/setup		more than 16 commands are permitted in	
		FosEnvVars		an rts load; no load files are generated	
		c. setenv SCRIPTUserStation			
		d. cd/fosb/test/am1/bin/sun_sparc_5-4			
		e. CreateRTS			
		/home/ivvtest4/rob/formalrun/RTSfiles			
		AM1_RTS_025_test3 025			

EOC3.8 TDRSS Contact Scheduling

Test CONNection between EOC and NCC

Schedule individual TDRSS contact activity

Schedule a batch of nominal TDRSS contact times over a given interval

Change contact algorithm parameters

Schedule an individual ground station contact activity

Submit TDRSS contact times to the NCC

Step	Station	Action	Expected Results	Comments
1.	EOC	Test connection between EOC and NCC.		
		In the Communication Contact Scheduler		
		window:		
		press the CONN icon		
2.	~	Schedule individual TDRSS contact activity		
3.	~	Schedule a batch of nominal TDRSS contact		
		times over a given interval		
4.	~	Change contact algorithm parameters		
5.	~	Schedule an individual ground station contact		
		activity		
6.	~	Submit TDRSS contact times to the NCC		
7.	NCC	Send schedules to EOC	NCC contact times are displayed on the	
			Timeline	
8.	EOC/	Verify that schedules are provided to EDOS		
	EDOS			
9.				

EOC3.9 DAS Creation and ATC Load Generation

Generate DAS

approve/disapprove soft constraints

Verify ATC load contents file

Verify ATC load image file

Verify ATC load uplink file

Verify ATC load report file

Verify ATC load catalog in Sybase

Connect to String, CAC, open CCW, open ground script, print

Attempt to generateDAS during activities w/hard constraints

DAS not generated

Constraint Check

Step	Station	Action	Expected Results	Comments
1.	EOC	In the Load Generator window, enter DAS ID of 175 and Version of 1		
2.	EOC	Enter DAS Start time of 6/24/99 00:00:00 and a DAS Stop time of 6/25/99 00:00:00		
3.	EOC	Enter an Uplink Start time of 6/23/99 00:00:00 and an Uplink Stop time of 6/23/99 08:00:00		
4.	EOC	Click OK to submit the request for DAS creation	The activities over the selected time period are used to generate the DAS. The user is prompted to approve or disapprove soft activity constraints. The ATC load contents, ATC load image, ATC load uplink, ATC load report, and integrated report are generated. The load catalog is updated §ybase).	
5.	EOC	Verify the ATC load contents file (AM1_ATC_99_175_a.cnt) is in the /fosb/test/am1/loads directory and is of the correct format	Use offline analysis to check format	ICD-106
6.	EOC	Verify the ATC load image file (AM1_ATC_99_175_a_1_OF_1.img) is in the /fosb/test/am1/loads directory and is of the correct format	Use offline analysis to check format	

 Step
 Station
 Expected Results
 Comments

Step	Station	Action	Expected Results	Comments
		1999/175 00:00:00 and the DAS Stop time	-	
		entered previously, 1999/176 00:00:00, and		
		click return and OK		
17.	EOC		Verify usingoffline analysis that all scheduled	
		print the ground script	activities from the timeline appear in the ground script	
18.	EOC/	Verify the DAS, ATC load report and the		December only
	ISTs	integrated report are available to thdSTs		
19.	~	Schedule the ATC load for uplink		
20.	EOC	Enter the start and stop time for DAS creation		
		for a period of time in which there are activitie	s	
		with hard constraint violations		
21.	EOC	Enter DAS ID (DOY) and version #		
22.	EOC	Click OK to submit the request for DAS	The activities over the selected time period are	
		creation	used to generate the DAS. Since there are	
			hard constraint violations, the ATC load, ATC	
			load report, integrated report, and ground	
	700		script are <i>not</i> generated.	
23.	EOC	Select Constraint Check on the Load		
2.4	FOG	Generator window		
24.	EOC	Select the Master Plan		
25.	EOC	Enter start and stop times		
26.	EOC	Enter an ID for the request		
27.	EOC	Click Submit to submit the request for a	The activities over the selected time period are	
		constraint check	activity-level and command-level constraint	
			checked. No ATC load or ground script is	
20	EOC	Varify that the moult of the continue of the	generated.	
28.	EOC	Verify that the result of the constraint check		
20		request are displayed		
29.		Continue on to EOC3.10 time permitting.		

EOC3.10 Late Change/TOO Scheduling

Receive late change request

Unlock portion of Master plan

Perform constraint checks

Verify new ATC generated

ATC loads generated for subsequenDAS have been removed from the system

Schedule additional communication contacts

Step	Station	Action	Expected Results	Comments
1.	EOC	Ensure ATC loads present.		
2.	EOC	Generate ATC loads forDASs subsequent to		
		the ATC to be changed.		
3.	EOC	Receive late change requests from STs.	Late change requests received from STs.	ISTs available for
				December run.
4.	EOC	Unlock the portion of the master plan of the		OTM 8.10.1.8
		mission timeline corresponding to the late		
		change requests.		
		On Load_Generator Modify menu	Load_Generator Locking and Unlocking	
		select Show Locks	Resources window opens.	
		select desired resource		
		Enter desired lock time		
	FOG	OK		
5.	EOC	Perform constraint checks on changes.		
6.	EOC	In the Load Generator window:		OTM section
		Click Late Change		8.10.1.2
		Select Master Plan		
		Enter the Start Date & Time		
		Click Submit		
7.	EOC	Verify a new ATC has been generated.		
8.	EOC	View the Ground Schedule to verify it reflects	ATC loads generated for subsequenDAS have	
		the changes.	been removed from the system.	
9.	EOC	Regenerate an ATC load that was removed (at		
		least one).		
10.	EOC	Schedule additional communication contacts		

Step	Station	Action	Expected Results	Comments
11.				

<u>Test Termination</u>:

Step	Station	Action	Expected Results	Comment
1.	EOC	Collect all necessary screen snaps, dumps, etc.		
		needed for post-test analysis and verification.		
		Save Event_Display to file		
		Evtdis_'DOY'.eoc3.		
2.	EOC	Take down the FOS user workstation in	FOS user workstation is down	
		accordance with OTM section 4.3		
3.	EOC	If necessary, take down the real time server	Servers are down	
		and data servers in accordance with OTM		
		section 4.3		

Appendix A: Test Package Requirements Summary

Requirement	Description	Test Case (s)
AM1-0270#B	The AM-1 SDVF shall have the capability to send and the ECS shall have	EOC3.7
	the capability to receive AM-1 SCC flight software updates.	
EOC-1005#B	The EOC shall provide the IMS with spacecraft information, including at a	EOC3.2
	minimum orbit information, for use in DAR generation.	
EOC-2010#B	The EOC shall accept from the FDF planning and scheduling information	EOC3.2
	for the EOS spacecraft and instruments, which includes, at a minimum, the	
	following:	
	a. Predicted orbit data including predicted ground track	
	b. EOS spacecraft UAV data	
	c. PSATs	
	d. Spacecraft maneuver information	
EOC-2030#B	The EOC shall store and maintain EOS planning and scheduling	EOC3.2,
	information, which includes, at a minimum, the following:	EOC3.3,
	c. Predicted availability of the spacecraft resources	EOC3.4,
	d. Baseline activity profile for each applicable instrument	EOC3.5,
	e. Planning and scheduling information received from the FDF	EOC3.8,
	f. Preliminary resource schedules, including TDRSS contact times	EOC3.9
	g. Detailed activity schedules, including TDRSS contact times	
EOC-2070#B	The EOC shall provide the capability to generate a spacecraft subsystem	EOC3.3,
	resource profile, based, at a minimum, on the following:	EOC3.4,
	a. Spacecraft orbit maintenance needs	EOC3.5,
	b. Spacecraft navigation needs	EOC 3.8
	c. Spacecraft subsystem maintenance needs	
EOC-2160#B	The EOC shall provide plans and schedules to the IMS.	EOC3.9
EOC-2170#B	The EOC shall be capable of planning and scheduling observations for	EOC3.3,
	which time may be specified in fixed or variable terms.	EOC3.4,
		EOC3.5,
		EOC3.8,
		EOC3.9
EOC-2180#B	The EOC shall be capable of planning and scheduling observations for those	
	EOS instruments whose operations may be periodic, intermittent, or	EOC3.4,
	continuous.	EOC3.5,
		EOC3.8,
		EOC3.9
EOC-2190#B	The EOC shall be capable of planning and scheduling coordinated	EOC3.3,
	observations involving multiple instruments.	EOC3.4,
		EOC3.5,
		EOC3.8,
		EOC3.9
EOC-2200#B	The EOC shall plan and schedule the management of spacecraft resources	EOC3.3,
•••	that include, at a minimum, the following:	EOC3.4,
	a. Spacecraft recorder	EOC3.5,
	b. Communications subsystems	EOC3.8,
	c. Thermal and power subsystems	EOC3.9
	d. SCC-stored command table.	
EOC-2210#B	The EOC shall have the capability to generate plans and schedules in both	EOC3.3,
	human readable and machine usable forms.	EOC3.4,
		EOC3.5,
		EOC3.8,
		EOC3.9

Requirement	Description	Test Case (s)
EOC-2220#B	The EOC shall identify and resolve conflicts based on, at a minimum, the	EOC3.3,
	following:	EOC3.4,
	a. Resources needed for each observation or instrument support activity	EOC3.5,
	b. Resources needed for each spacecraft subsystem activity, if applicable	EOC3.8,
	c. Inter-instrument dependency	EOC3.9
	d. In situ observation dependency	
	e. Priorities set by the LTSP	
EOC-2240#B	The EOC shall reintroduce applicable requested activities in its planning	EOC3.3,
	and scheduling function when the activity did not occur due to a deviation	EOC3.4,
	from the schedule.	EOC3.5,
		EOC3.8,
		EOC3.9
EOC-2250#B	The EOC shall be capable of performing its planning and scheduling	EOC3.8
	function in batch and incremental interactive-user modes.	
EOC-2260#B	The EOC shall provide "what-if" capabilities for planning and scheduling	EOC3.5,
	analysis, and provide them to authorized users, including the ICCs.	EOC3.6
EOC-2270#B	The EOC shall accept an instrument resource profile or instrument resource	EOC3.3
	deviation list (when a resource profile exists for the instrument) from each	
	ICC.	
EOC-2272#B	For the instruments that have resource deviations lists, the EOC shall build	EOC3.3
	instrument resource profiles by combining the resource deviation lists with	
	the respective baseline resource profiles.	
EOC-2280#B	At least once each week, the EOC shall generate for each spacecraft a	EOC3.4,
	preliminary resource schedule that describes all operations currently planned	IEOC3.5,
	for the following target week.	EOC3.8
EOC-2290#B	Whenever the ICC's instrument resource profile cannot be integrated into a	EOC3.4,
	preliminary resource schedule, the EOC shall provide the ICC with a	EOC3.5,
	notification that includes, at a minimum, an identification of the conflicting	EOC3.8
	activities and the source of conflict.	
EOC-2300#B	The EOC shall build or update the preliminary resource schedule based on	EOC3.4,
	the following, at a minimum:	EOC3.5,
	a. Existing preliminary resource schedules, if any	EOC3.8
	b. Instrument resource profiles	
	c. Spacecraft subsystems resource profile	
	d. Science guidelines	
	e. Spacecraft operations constraints	
	f. TDRSS schedule	
EOC-2310#B	The EOC shall build a preliminary resource schedule by performing the	EOC3.4,
	following:	EOC3.5,
	a. Integrating the spacecraft subsystems resource profile and individual	EOC3.8
	instrument resource profiles	
	b. Determining if required resources, including SN resources, are within	
	limits	
	c. Using guidelines established by the LTSP	
EOG 2220#B	d. Resolving conflicts between the proposed activities	E002.4
EOC-2320#B	The preliminary resource schedule shall include, at a minimum, the	EOC3.4,
	following:	EOC3.5,
	a. Activity or DAR identifiers	EOC3.8
	b. Resource availability and usage requirements	
	c. Time constraints and alternatives for planned activities	
EOC 2250#P	d. TDRSS schedule The FOC shall provide the preliminary resource schedule to the ICCs upon	EOC2 4
EOC-2350#B	The EOC shall provide the preliminary resource schedule to the ICCs upon	EOC3.4, EOC3.5,
	generation.	EOC3.5, EOC3.8,
		EOC3.8, EOC3.9
		EUC3.9

EOC.2370#B The EOC shall generate TDRSS schedule requests based on the data rate profiles of all the instruments and spacecraft subsystems.	Requirement	Description	Test Case (s)
FOC-2400#B The FOC shall accept the forecast TDRSS schedule from the NCC. FOC.3.8	EOC-2370#B	The EOC shall generate TDRSS schedule requests based on the data rate	EOC3.8
EOC-2409#B The EOC shall accept the forecast TDRSS schedule from the NCC. EOC3.8		profiles of all the instruments and spacecraft subsystems.	
EOC-2410#B The EOC shall accept from the NCC notification of rejection along with the reason for rejection, when all or a portion of the TDRSS schedule request cannot be accommodated. EOC-2420#B In response to the rejection of a TDRSS schedule request, the EOC shall have the capability to modify the request for resubmission to the NCC. EOC-2460#B The EOC shall be capable of generating or updating a spacecraft subsystem activity list based on at a minimum the following: a. Existing detailed activity schedule b. Preliminary resource schedule c. Spacecraft subsystem activities identified after the preliminary resource schedule has been generated d. Current predicted orbit data and related information e. Responses to emergency/contingency situations EOC-2480#B The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation lists, the EOC shall build the instrument activity generating or updating a detailed activity existion lists with the respective baseline activity profile exists for the instrument substance activity lists by combining the instrument activity deviation lists with the respective baseline activity profile. EOC-2490#B For each day the EOC shall be capable of generating or updating a detailed activity schedule for each spacecraft and its instruments, nominally covering the next 7 days. EOC-2510#B The EOC shall generate a detailed activity schedule for the spacecraft and its instruments by: a. Integrating the spacecraft subsystem activity list and individual instrument activity lists b. Determining if the aggregate resource requirements are within limits d. Ensuring that all the sequencing constraints among the proposed activities are respected e. Scheduling the spacecraft recorder, direct downlink, and communication subsystem operations EOC-2520#B If additional TDRSS services If the request to the NCC for additional SN services is denied, the EOC shall EOC3.9, regenerate or modify a detailed activity schedule to account for the TDRSS EOC3.10 EOC-2540#	EOC-2400#B		
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	EOC-2555#B		EOC3.10
		scheduled observation, on other previously scheduled activities.	

Requirement	Description	Test Case (s)
EOC-2570#B	In support of a TOO observation or late change, the EOC shall update the	EOC3.10
	detailed activity schedule within 1 hour after receipt of the update to the	
	corresponding instrument activity list or the instrument activity deviation	
	list (when an activity profile exists for the instrument), if the update does no	t
	affect existing detailed activity schedule events or create new conflicts.	
EOC-2590#B	In support of a TOO observation or a late change, the EOC shall update the	EOC3.10
	detailed activity schedule within 10 hours after the receipt of the update of	
	the corresponding instrument activity list (or instrument activity deviation	
	list), if the update affects existing detailed activity schedule events or create	S
	new conflicts.	
EOC-2620#B	The EOC shall provide the ICC with the detailed activity schedule and any	EOC3.9,
	updates upon generation.	EOC3.10
EOC-3015#B	The EOC shall accept SCC flight software updates from the SDVF.	EOC3.7
EOC-3017#B	The EOC shall accept from the FDF parameters necessary for spacecraft	EOC3.2
	command data generation, including the following:	
	a. Navigational operations parameters	
	b. Spacecraft maneuver parameters	
EOC-3020#B	The EOC shall accept from the ICC instrument loads, SCC-stored	EOC3.7
	instrument commands, and SCC-stored instrument tables as well as the	
	associated information that includes at a minimum the following:	
	a. Instrument identifier	
	b. Schedule identifier, if applicable	
	c. Identification of commands that could impact spacecraft or instrument	
707.0004.07	safety (i.e., critical commands)	7000
EOC-3024#B	The EOC shall validate the expected resource usage.	EOC3.4
EOC-3030#B	The EOC shall authenticate the originator of command information from the ICCs.	EOC3.7
EOC-3050#B	At least once per day, the EOC shall generate SCC-stored spacecraft	EOC3.7,
	commands and SCC-stored spacecraft tables based on the detailed activity	EOC3.9
	schedule.	
EOC-3070#B	The EOC shall generate SCC-stored spacecraft commands and SCC-	EOC3.7,
	stored spacecraft tables for 24 hours of spacecraft operations in less than 1	EOC3.9
	hour.	
EOC-3086#B	The EOC shall generate a command-to-memory location map for SCC-	EOC3.7,
	stored command loads.	EOC3.9
EOC-3090#B	As frequently as necessitated by the detailed activity schedule, the EOC	EOC3.7
	shall build a spacecraft and instrument memory load, which includes as	
	many of the following as needed:	
	a. SCC-stored spacecraft and instrument commands	
	b. SCC-stored spacecraft and instrument tables	
	c. Instrument loads	
	d. SCC software updates.	
EOC-3160#B	The EOC shall generate operational reports including, at a minimum, the	EOC3.7,
	following:	EOC3.9
	a. SCC-stored command load report	
	b. Integrated report having orbital events, command execution times, and	
FOG 2222	TDRS contacts with candidate loads.	F062.7
EOC-3200#B	The EOC shall accept from the ICC instrument preplanned command group	
	for issuance by the EOC in the event of an anomaly that requires an	EOC3.9
	immediate response or in the event that the ICC is unable to command the	
EOC 2210#P	instrument. The EOC shall store and maintain, proplanted instrument commands for all	EOC2 7
EOC-3210#B	The EOC shall store and maintain preplanned instrument commands for all instruments on the spacecraft	EOC3.7, EOC3.9
	instruments on the spacecraft.	EUC3.9

Requirement	Description	Test Case (s)
EOC-3225#B	In support of a TOO observation or late change, the EOC shall prepare the	EOC3.10
	corresponding integrated load and/or real-time instrument command set	
	within 15 minutes of receipt of the SCC-stored instrument commands,	
	SCC-stored instrument tables, or instrument load from the ICC, if the	
	observation does not impact previously scheduled activities.	
EOC-3226#B	In support of a TOO observation or late change, the EOC shall prepare the	EOC3.10
20002202	corresponding integrated load and/or real-time instrument command set	2000.10
	within 1 hour of receipt of the SCC-stored instrument commands, SCC-	
	stored instrument tables, or instrument load from the ICC, if the	
	observation impacts previously scheduled activities.	
EOC-3240#B	The EOC shall be capable of producing spacecraft and instrument memory	EOC3.7,
LOC 32 10#B	loads covering 24 hours of spacecraft operation in less than 1 hour.	EOC3.9
EOC-4010#B	For each spacecraft and its instruments, the EOC shall prepare uplink data	EOC3.7,
EOC-4010#B	that conform to the CCSDS Telecommand Standard.	EOC3.7, EOC3.9
EOSD1520#B	ECS elements shall receive TDRSS schedules from the Network Control	EOC3.8
ЕОЗД1320#В	Center (NCC).	EUC3.6
EOSD1530#B	ECS elements shall submit TDRSS schedule requests to the NCC.	EOC3.8
ICC-2350#B	In support of a TOO observation or a late change, the ICC shall update the	EOC3.10
	instrument activity list or the instrument activity deviation list (when an	
	activity profile exists for the instrument) within 8 hours, if the corresponding	g
	observation or the late change affects existing instrument activities or create	
	new conflicts.	
ICC-2370#B	In support of a TOO observation, the ICC shall update the instrument	EOC3.10
	activity list or the instrument activity deviation list (when an activity profile	
	exists for the instrument) within 30 minutes, if the corresponding	
	observation or the late change does not affect existing instrument activities	
	or create new conflicts.	
ICC-2380#B	In support of a late change, the ICC shall be capable of updating the	EOC3.10
	instrument activity list within 75 minutes, if the request for instrument	
	support activity does not affect existing instrument activity list events or	
	create new conflicts.	
ICC-3070#B	In support of a TOO observation or late change, the ICC shall generate and	EOC3.10
	validate the corresponding commands within 25 minutes of receiving an	
	updated detailed activity schedule from the EOC, if the corresponding	
	observation does not impact previously scheduled activities.	
ICC-3071#B	In support of a TOO observation, the ICC shall be capable of generating and	EOC3.10
	validating the corresponding commands within 55 minutes of receiving an	
	updated detailed activity schedule from the EOC, if the corresponding	
	observation impacts previously scheduled activities.	
ICC-3085#B	In support of a late change, the ICC shall be capable of generating and	EOC3.10
	validating the corresponding commands within 115 minutes of receiving an	
	updated detailed activity schedule from the EOC, if the corresponding	
	observation impacts previously scheduled activities.	
EOC-0030#B	The EOC shall receive the LTSP and LTIP from the SMC.	Not Testable
EOC-2020#B	The EOC shall generate the long term spacecraft operations plan, based	Not Testable
	upon, at a minimum, the following:	
	a. LTSP from the IWG.	
	b. LTIP from the IWG.	
	c. Spacecraft maneuvers and other spacecraft activities that have potential to	
	impact mission operations	

Requirement	Description	Test Case (s)
EOC-2030#B	The EOC shall store and maintain EOS planning and scheduling	Not Testable
	information, which includes, at a minimum, the following:	
	a. IWG science guidelines, as specified in the LTSP and LTIP	
	b. Long term spacecraft operations plan	

EOC3 Appendix C

EOC3 Ap	pendix C							
Step								
EOC3.3	New Activity Name:EOC33_ASTER_ACT_1_FR							
step 4	Resource Name: AM1 ASTER							
	Activity Type: Standard							
	ATC: AST_TURN_ON_C_TDP							
	Start -00:00:05							
	ATC: AST_ENABLE_SVH							
	Start +00:00:10							
	ATC START +00:02:00 AST_TURN_ON_C_SQL							
	Note: Noexist rule hard constraint, AST_TURN_OFF_C_SQL cannot be in							
	same command list. Also Comment rule "The sequal C drive is turned on."							
	GND: AST_TURN_ON_MPS							
	Stop -00:00:10							
	GND: AST_TURN_OFF_C_TDP							
	Stop +00:00:05							
	New Activity NemoFOC22 ACTED ACT 2DADT1 ED							
	New Activity Name:EOC33_ASTER_ACT_2PART1_FR Resource Name:AM1 ASTER							
	Activity Type:Standard							
	ATC START +00:00:00 AST_TURN_ON_S_TC							
	Note: Post rule hard constraint, AST_TURN_ON_T_SCAN must be sent within							
	30-45 minutes.							
	ATC START +00:00:00 AST_TURN_ON_T_STBY							
	Note: Post rule hard constraint, AST_TURN_ON_V_MAIN must be sent within							
	13-15 minutes.							
	ATC START +00:14:00 AST_TURN_ON_V_MAIN							
	New Activity Name:EOC33_ASTER_ACT_2PART2_FR							
	Resource Name: AM1 ASTER							
	Activity Type: Standard							
	ATC START -00:05:00 AST_TURN_ON_T_CLR							
	ATC START +00:00:00 AST_TURN_ON_T_SCAN							
	Note: Post rule hard constraint, AST_TURN_ON_T_SCAN must be sent within							
	30-45 minutes of AST_TURN_ON_S_TC (EOC33_ASTER_ACT_2PART1_FR)							
	Name Activity Name EOC22 CEDESE ACT 1 ED							
	New Activity Name:EOC33_CERESF_ACT_1_FR Resource Name:AM1 CERES FORE							
	Activity Type:Standard							
	ATC: CEF_TURN_ON_OPS_A							
	Start -00:05:00							
	ATC: CEF_TURN_OFF_OPS_A							
	Start +00:03:00							
	Start 100.03.00							

Step							
ыср	ATC: CEF_TURN_ON_SURV_A						
	Stop -00:03:00						
	ATC: CEF_TURN_OFF_SURV_A						
	Stop +00:05:00						
	<u>*</u>						
	Mode Transition: Standby						
	Start +00:00:30						
	New Activity Name:EOC33_CERESF_ACT_1_FR						
	Resource Name: AM1 CERES FORE						
	Activity Type:Standard						
	ATC: CEF_TURN_ON_OPS_A						
	Start -00:10:00						
	ATC: CEF_TURN_OFF_OPS_A						
	Start +00:03:00						
	ATC: CEF_TURN_ON_SURV_A						
	Stop -00:03:00						
	ATC: CEF_TURN_OFF_SURV_A						
	Stop +00:10:00						
	New Activity Name:EOC33_MISR_ACT_1_FR						
	Resource Name: AM1 MISR						
	Activity Type:Standard						
	GND: MIS_TURN_ON_INSTR						
	Start -00:01:00						
	GND: MIS_OPEN_COVER						
	Start -00:02:00						
	GND: MIS_CLOSE_COVER						
	Stop +00:02:00						
	GND: MIS_USE_IMOK						
	Stop +00:01:00						
	ECL Directive: WAIT						
	Start +00:05:00						
	New Activity Name:EOC33_MODIS_ACT_1_FR						
	Resource Name: AM1 MODIS						
	Activity Type:Standard						
	ATC: MOD_TURN_ON_BBB						
	Start -00:00:00 (will change to Start +00:00:00 in the Selected Commands						
	portion of the Commands window)						
	ATC: MOD_TURN_ON_BBA						
	Start +00:01:00						
	GND: MOD_TURN_OFF_RCCSHTR						
	Stop -00:01:00						
	GND: MOD_TURN_ON_CPB						
	Stop +00:00:00						
	Mode Transition: Science Day						
	Start -00:05:00						

Step								
	ECL Directive: WAIT							
	Stop -00:00:30							
	Complex Activity:							
	EOC_CERESF_ACT_1_FR							
	Start +00:10:00							
	Procedure: proc1							
	Start +00:05:00							
	Statt 100.05.00							
	New Activity Name:EOC33_MODIS_ACT_2_FR							
	Resource Name: AM1 MODIS							
	Activity Type:Standard							
	ATC START -00:01:00 MOD_ENABLE_CPA_EPWRT							
	Note: Offset rule soft constraint, No commands prior to for 0:30.							
	ATC START +00:01:00 MOD_TURN_ON_BBA							
	ATC START +00:01:30 MOD_DISABLE_CP_EPWRT							
	note: Offset rule hard constraint, No commands afterwards for 1:30.							
	ATC STOP +00:01:00 MOD_ENABLE_PS2_SVHTR							
	note: Offset rule soft constraint, No commands afterwards for 1:30.							
	New Activity Name:EOC33_MOPITT_ACT_1_FR							
	Resource Name: AM1 MOPITT							
	Activity Type:Standard							
	ATC: MOP_ENABLE_LAUNCH_A							
	Start -00:00:30							
	ATC: MOP_RESET_COMPUTER							
	Start -00:00:30							
	ATC: MOP_SELECT_PROM_A							
	Start -00:00:30							
	ATC: MOP_SET_RD_SPARE							
	Start -00:00:30							
	ATC: MOP_TURN_ON_MPSU_A							
	Start -00:00:30							
	ATC: MOP_TURN_OFF_MPSU_A							
	Start -00:00:30							
	ATC: MOP_TURN_ON_SIDE_B							
	Start -00:00:30							
	ATC: MOP TURN OFF SIDE B							
	Start -00:00:30							
	GND: MOP_TURN_ON_SPSU_B							
	Stop +00:00:00							
	GND: MOP_TURN_OFF_SPSU_B							
	Stop +00:00:10							
	GND: MOP_TURN_ON_MPSU_A							
	Stop +00:00:20							
	GND: MOP_TURN_OFF_MPSU_A							
	Stop +00:00:30							
	GND: MOP_TURN_ON_SIDE_A							
	51(D) 11(01_1011_011_011D1_11							

Step								
Бієр	Stop +00:00:40							
	GND: MOP_TURN_OFF_SIDE_A							
	Stop +00:00:50							
	GND: MOP_TURN_ON_SPSU_A							
	Stop +00:01:00							
	GND: MOP_TURN_OFF_SPSU_A							
EOC3.3	Stop +00:01:10 New Activity Name:FOC33 CDH ACT 1 FR							
step 5	New Activity Name:EOC33_CDH_ACT_1_FR Resource Name:AM1 Command & Data Handling							
step 3								
	Activity Type:Standard							
	ATC START -00:00:05 CDH_ENABLE_CT1RCSR1							
	ATC START +00:00:10 CDH_GET_CT1_RAM_CRC							
	Edit parameters STARTING ADDRESS=50							
	CRC_VALUE=65536							
	WORD_COUNT=50000							
	GND: CDH_ENABLE_CT1_OK							
	Stop -00:00:10							
	GND: CDH_TURN_OFF_SCC1							
	Stop +00:00:05							
	New Activity Name:EOC33_COM_ACT_1_FR							
	· ·							
	Resource Name: AM1 Communications							
	Activity Type:TDRSS Contact							
	NCC Config Code:							
	ATC: COM_SELECT_HGA_TX Start_00:05:00							
	Start -00:05:00 ATC: COM_SELECT_HGA_TX1							
	Start +00:03:00							
	ATC: COM_STEP_HGA_AZ							
	Stop -00:03:00							
	ATC: COM_TURN_ON_SSPA1							
	Stop +00:05:00							
	New Activity Name:EOC33_EAS_ACT_1_FR							
	Resource Name: AM1 Electrical Accommodation Subsystem							
	Activity Type:Standard							
	GND: EAS_ENABLE_NEA_BUSB							
	Start -00:01:00							
	GND: EAS_ARM_HGA_BOX1A							
	Start -00:02:00							
	GND: EAS_FIRE_HGA_BOX1A							
	Stop +00:02:00							
	<u>*</u>							
	GND: EAS_DISABLE_NEA_BUSB							
	Stop +00:01:00							
	ECL Directive: WAIT							

Step							
	Start +00:05:00						
	New Activity Name:EOC33_EPS_ACT_1_FR						
	Resource Name: AM1 Power Subsystem						
	Activity Type:Standard						
	ATC: EPS_SELECT_ADEA_FWD						
	Start -00:00:00 (will change to Start +00:00:00 in the Selected Commands						
	portion of the Commands window)						
	ATC: EPS_SET_ADEA_RATEADJ						
	Start +00:01:00						
	Edit parameter ADJUSTMENT=-300 (will get error message) then						
	ADJUSTMENT=-100						
	GND: EPS_ENABLE_ADEB_SAFE						
	Stop -00:01:00						
	GND: EPS_TURN_ON_CMDDECB						
	Stop +00:00:00						
	ECL Directive: WAIT						
	Stop -00:00:30						
	Complex Activity:						
	EOC_EAS_ACT_1_FR						
	Start +00:10:00						
	Procedure: proc2						
	Start +00:05:00						
	New Activity Name:EOC33_GNC_ACT_1_FR						
	Resource Name: AM1 Guidance Nav & Control						
	Activity Type:Standard						
	ATC: GNC_ENABLE_CSM_TO_A						
	Start +00:00:30						
	ATC: GNC_TURN_ON_ACEA						
	Start +00:00:30						
	ATC: GNC_TURN_ON_ACEA_SM						
	Start +00:00:30						
	ATC: GNC_SELECT_SHPB_MODE						
	Start +00:00:30						
	ATC: GNC_RESET_IRUPOS_B						
	Start +00:00:30						
	ATC: GNC_SET_TAM_X_BIA						
	Start +00:00:30						
	ATC: GNC_SET_TAM_Y_BIA						
	Start +00:00:30						
	ATC: GNC_SET_TAM_Z_BIA						
	Start +00:00:30						
	GND: GNC_TURN_ON_ZMTRB						
	Stop -00:01:10						
	GND: GNC_ENABLE_TAM2A						
	Stop -00:01:00						

Step									
•	GND: GNC_TURN_ON_IRU_A								
	Stop -00:00:50								
	GND: GNC_TURN_OFF_IRU_A								
	Stop -00:00:40								
	GND: GNC_DUMP_ST1BLOCK								
	Stop -00:00:30								
	GND: GNC_SET_TORQ_X_BIB								
	Stop -00:00:20								
	GND: GNC_SET_TORQ_Y_BIB								
	Stop -00:00:10								
	GND: GNC_SET_TORQ_Z_BIB								
	Stop -00:00:00 (will change to Stop +00:00:00 in the Selected Commands								
	portion of the Commands window)								
	New Activity Name:EOC33_PMS_ACT_1_FR								
	Resource Name: AM1 Propulsion								
	Activity Type:Standard								
	ATC: PMS_TURN_ON_EPC1								
	Start +01:00:00								
	ATC: PMS_TURN_OFF_EPC1								
	Stop -01:00:00								
	New Activity Name:EOC33_TCS_ACT_1_FR								
	Resource Name: AM1 Thermal Control								
	Activity Type:Standard								
	GND: TCS_SET_PBATPWMB								
	Start +00:30:00								
	GND: TCS_ENABLE_BBATHG1A								
	Stop -00:30:00								

EOC3.3 Constraint Definitions

Constraint Name	Left Resource	Activity/	Option	soft/	Type	Period	Right Resource	Activity/	Option	Description
		Mode/Event		hard	· ·			Mode/Event	·	·